

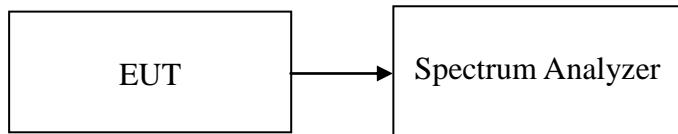


8.6 PEAK EXCURSION

LIMIT

According to §15.407(a)(6), the ratio of the peak excursion of the modulation envelope (measured using a peak hold function) to the maximum conducted output power (measured as specified above) shall not exceed 13 dB across any 1 MHz bandwidth or the emission bandwidth whichever is less.

Test Configuration



TEST PROCEDURE

The test is performed in accordance with <FCC Public Notice: APPENDIX A Guidelines for Assessing Unlicensed National Information Infrastructure (U-NII) Devices> – Part 15, Subpart E, August 2002.

1. Place the EUT on the table and set it in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to spectrum.
3. Trace A, Set RBW =1MHz, VBW = 3MHz, Span >26dB bandwidth, Max. hold.
4. Delta Mark trace A Maximum frequency and trace B same frequency.
5. Repeat the above procedure until measurements for all frequencies were complete.

TEST RESULTS

No non-compliance noted

**Test Data****Test mode: IEEE 802.11a mode / 5180 ~ 5240MHz**

Channel	Frequency (MHz)	Peak Excursion (dB)	Limit (dB)	Margin (dB)	Result
Low	5180	7.71	13.00	-5.29	PASS
Mid	5220	7.72	13.00	-5.28	PASS
High	5240	7.65	13.00	-5.35	PASS

Test mode: IEEE 802.11n HT 20 MHz Channel mode / 5180 ~ 5240MHz / Chain 0

Channel	Frequency (MHz)	Peak Excursion (dB)	Limit (dB)	Margin (dB)	Result
Low	5180	8.37	13.00	-4.63	PASS
Mid	5220	8.45	13.00	-4.55	PASS
High	5240	8.47	13.00	-4.53	PASS

Test mode: IEEE 802.11n HT 20 MHz Channel mode / 5180 ~ 5240MHz / Chain 1

Channel	Frequency (MHz)	Peak Excursion (dB)	Limit (dB)	Margin (dB)	Result
Low	5180	8.65	13.00	-4.35	PASS
Mid	5220	8.69	13.00	-4.31	PASS
High	5240	8.58	13.00	-4.42	PASS

Test mode: IEEE 802.11n HT 40 MHz mode / 5190 ~ 5230MHz / Chain 0

Channel	Frequency (MHz)	Peak Excursion (dB)	Limit (dB)	Margin (dB)	Result
Low	5190	8.75	13.00	-4.25	PASS
High	5230	8.44	13.00	-4.56	PASS

Test mode: IEEE 802.11n HT 40 MHz mode / 5190 ~ 5230MHz / Chain 1

Channel	Frequency (MHz)	Peak Excursion (dB)	Limit (dB)	Margin (dB)	Result
Low	5190	9.21	13.00	-3.79	PASS
High	5230	9.24	13.00	-3.76	PASS

Test mode: IEEE 802.11n HT 80 MHz mode / 5210MHz / Chain 0

Channel	Frequency (MHz)	Peak Excursion (dB)	Limit (dB)	Margin (dB)	Result
Mid	5210	8.62	13.00	-4.38	PASS

Test mode: IEEE 802.11n HT 80 MHz mode / 5210MHz / Chain 1

Channel	Frequency (MHz)	Peak Excursion (dB)	Limit (dB)	Margin (dB)	Result
Mid	5210	8.97	13.00	-4.03	PASS



Test mode: IEEE 802.11a mode / 5260 ~ 5320MHz

Channel	Frequency (MHz)	Peak Excursion (dB)	Limit (dB)	Margin (dB)	Result
Low	5260	7.73	13.00	-5.27	PASS
Mid	5280	7.72	13.00	-5.28	PASS
High	5320	7.72	13.00	-5.28	PASS

Test mode: IEEE 802.11n HT 20 MHz Channel mode / 5260 ~ 5320MHz / Chain 0

Channel	Frequency (MHz)	Peak Excursion (dB)	Limit (dB)	Margin (dB)	Result
Low	5260	8.44	13.00	-4.56	PASS
Mid	5280	8.59	13.00	-4.41	PASS
High	5320	8.49	13.00	-4.51	PASS

Test mode: IEEE 802.11n HT 20 MHz Channel mode / 5260 ~ 5320MHz / Chain 1

Channel	Frequency (MHz)	Peak Excursion (dB)	Limit (dB)	Margin (dB)	Result
Low	5260	8.64	13.00	-4.36	PASS
Mid	5280	8.67	13.00	-4.33	PASS
High	5320	8.62	13.00	-4.38	PASS

Test mode: IEEE 802.11n HT 40 MHz mode / 5270 ~ 5310MHz / Chain 0

Channel	Frequency (MHz)	Peak Excursion (dB)	Limit (dB)	Margin (dB)	Result
Low	5270	8.42	13.00	-4.58	PASS
High	5310	8.68	13.00	-4.32	PASS

Test mode: IEEE 802.11n HT 40 MHz mode / 5270 ~ 5310MHz / Chain 1

Channel	Frequency (MHz)	Peak Excursion (dB)	Limit (dB)	Margin (dB)	Result
Low	5270	9.21	13.00	-3.79	PASS
High	5310	9.20	13.00	-3.80	PASS

Test mode: IEEE 802.11n HT 80 MHz mode / 5290MHz / Chain 0

Channel	Frequency (MHz)	Peak Excursion (dB)	Limit (dB)	Margin (dB)	Result
Mid	5290	8.54	13.00	-4.46	PASS

Test mode: IEEE 802.11n HT 80 MHz mode / 5290MHz / Chain 1

Channel	Frequency (MHz)	Peak Excursion (dB)	Limit (dB)	Margin (dB)	Result
Mid	5290	9.05	13.00	-3.95	PASS



Test mode: IEEE 802.11a mode / 5500 ~ 5700MHz

Channel	Frequency (MHz)	Peak Excursion (dB)	Limit (dB)	Margin (dB)	Result
Low	5500	7.75	13.00	-5.25	PASS
Mid	5600	7.75	13.00	-5.25	PASS
High	5700	7.76	13.00	-5.24	PASS

Test mode: IEEE 802.11n HT 20 MHz Channel mode / 5500 ~ 5700MHz / Chain 0

Channel	Frequency (MHz)	Peak Excursion (dB)	Limit (dB)	Margin (dB)	Result
Low	5500	8.67	13.00	-4.33	PASS
Mid	5600	8.66	13.00	-4.34	PASS
High	5700	8.60	13.00	-4.40	PASS

Test mode: IEEE 802.11n HT 20 MHz Channel mode / 5500 ~ 5700MHz / Chain 1

Channel	Frequency (MHz)	Peak Excursion (dB)	Limit (dB)	Margin (dB)	Result
Low	5500	8.70	13.00	-4.30	PASS
Mid	5600	8.62	13.00	-4.38	PASS
High	5700	8.70	13.00	-4.30	PASS

Test mode: IEEE 802.11n HT 40 MHz mode / 5510 ~ 5670MHz / Chain 0

Channel	Frequency (MHz)	Peak Excursion (dB)	Limit (dB)	Margin (dB)	Result
Low	5510	8.87	13.00	-4.13	PASS
Mid	5590	8.69	13.00	-4.31	PASS
High	5670	8.85	13.00	-4.15	PASS

Test mode: IEEE 802.11n HT 40 MHz mode / 5510 ~ 5670MHz / Chain 1

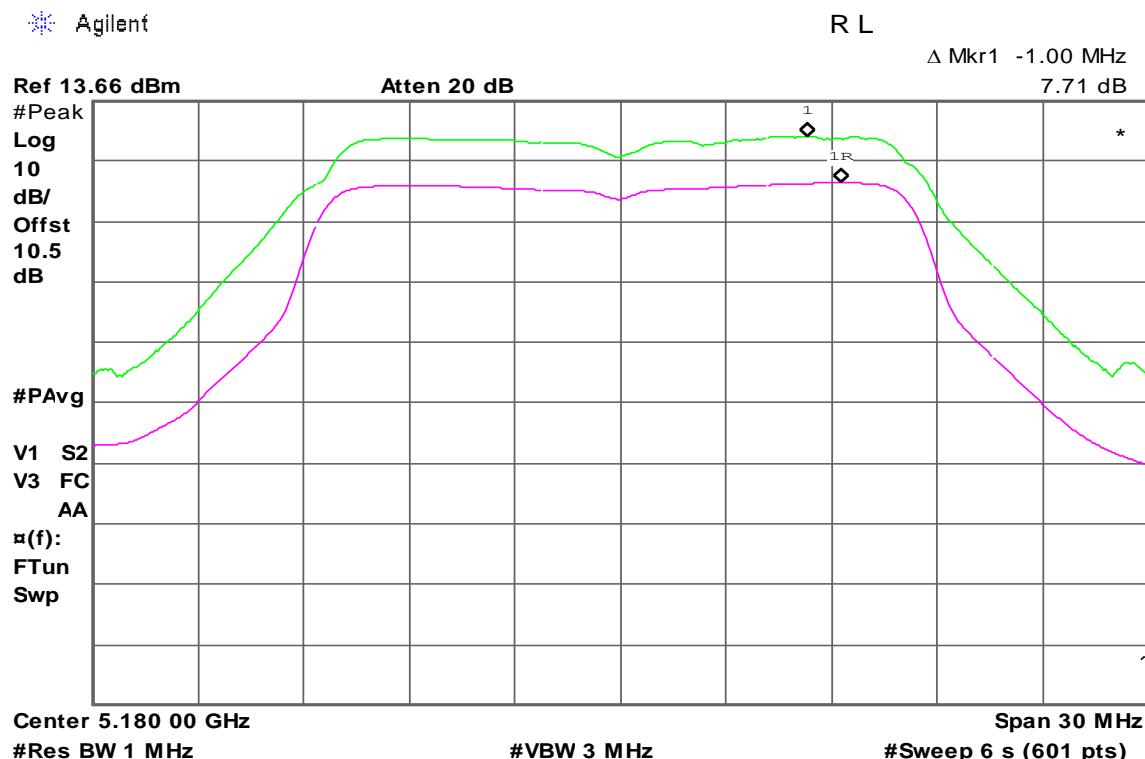
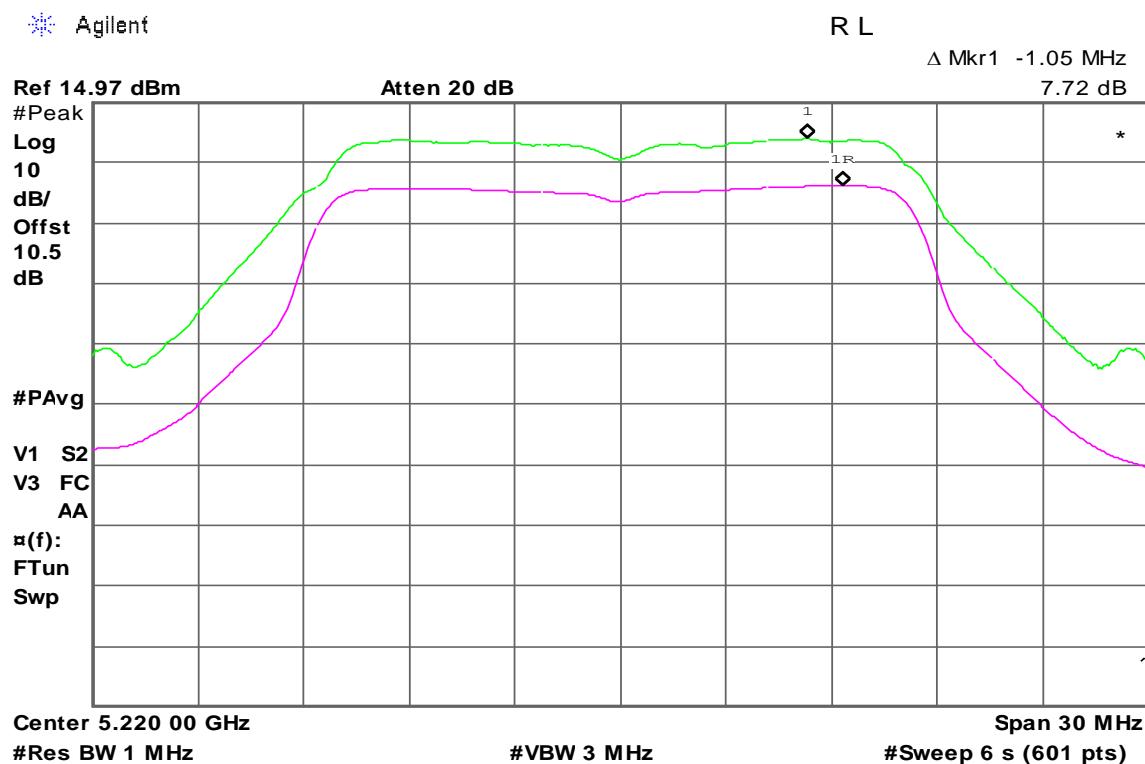
Channel	Frequency (MHz)	Peak Excursion (dB)	Limit (dB)	Margin (dB)	Result
Low	5510	9.13	13.00	-3.87	PASS
Mid	5590	9.22	13.00	-3.78	PASS
High	5670	9.17	13.00	-3.83	PASS

**Test mode: IEEE 802.11n HT 80 MHz mode / 5530 ~ 5690MHz / Chain 0**

Channel	Frequency (MHz)	Peak Excursion (dB)	Limit (dB)	Margin (dB)	Result
Low	5530	8.73	13.00	-4.27	PASS
High	5690	8.70	13.00	-4.30	PASS

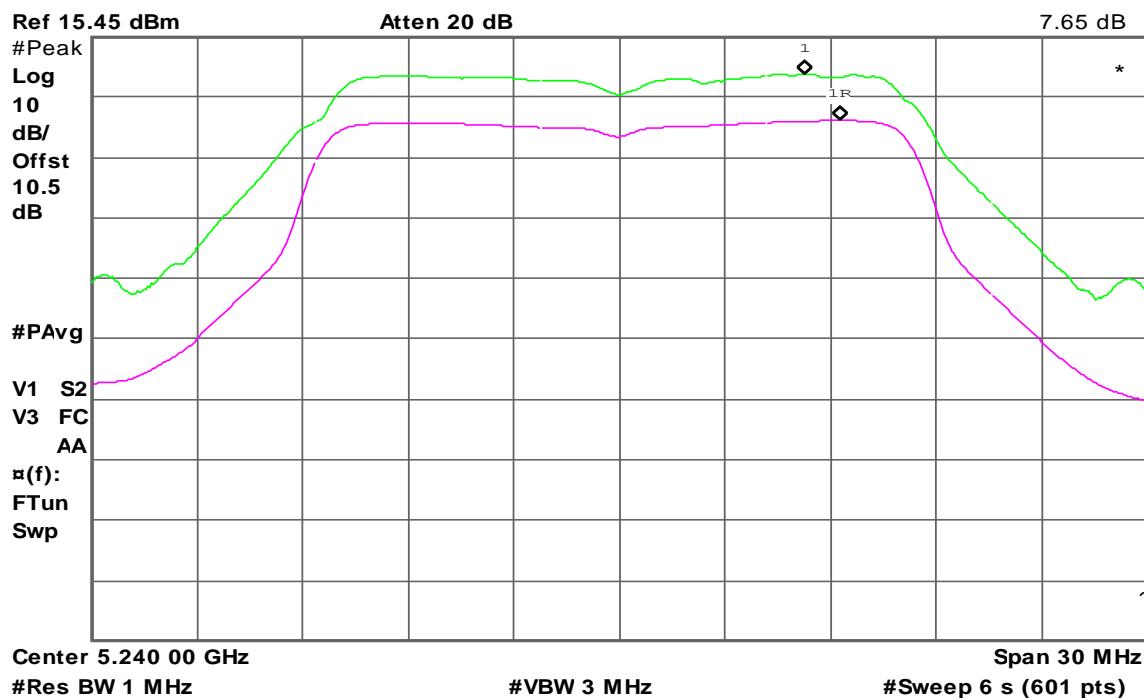
Test mode: IEEE 802.11n HT 80 MHz mode / 5530 ~ 5690MHz / Chain 1

Channel	Frequency (MHz)	Peak Excursion (dB)	Limit (dB)	Margin (dB)	Result
Low	5530	8.85	13.00	-4.15	PASS
High	5690	8.80	13.00	-4.20	PASS

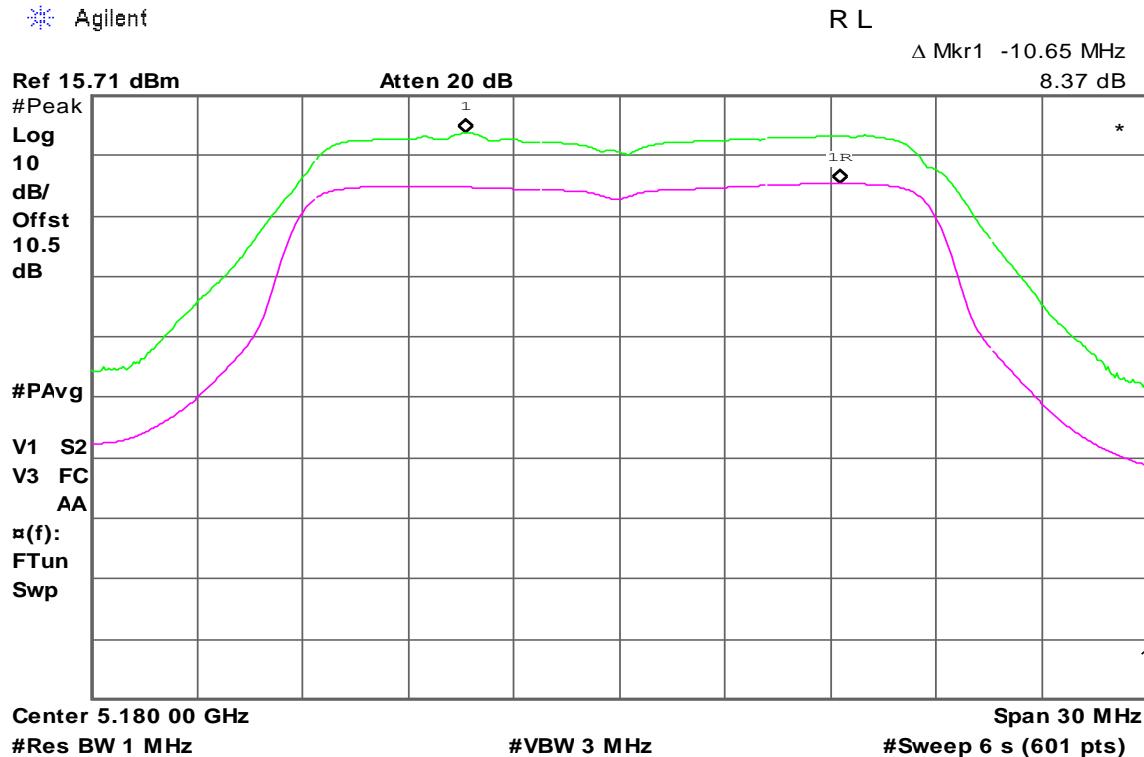
**Test Plot****IEEE 802.11a mode / 5180 ~ 5240MHz****CH Low****CH Mid**

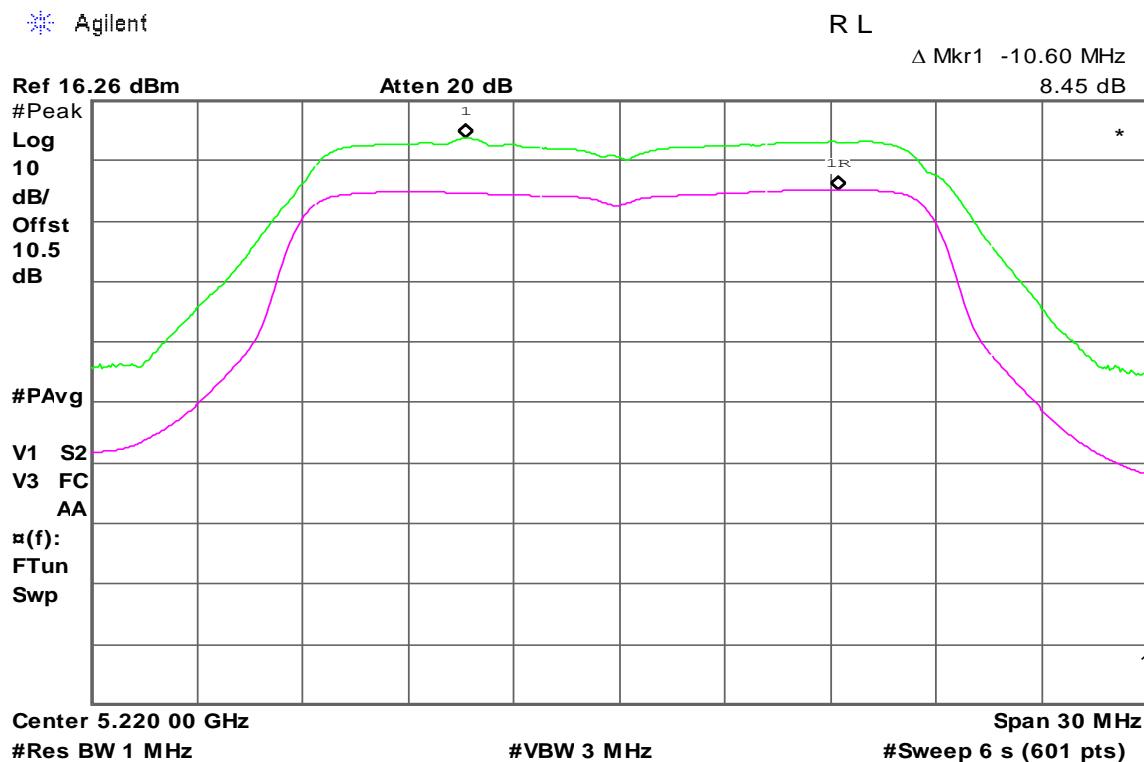
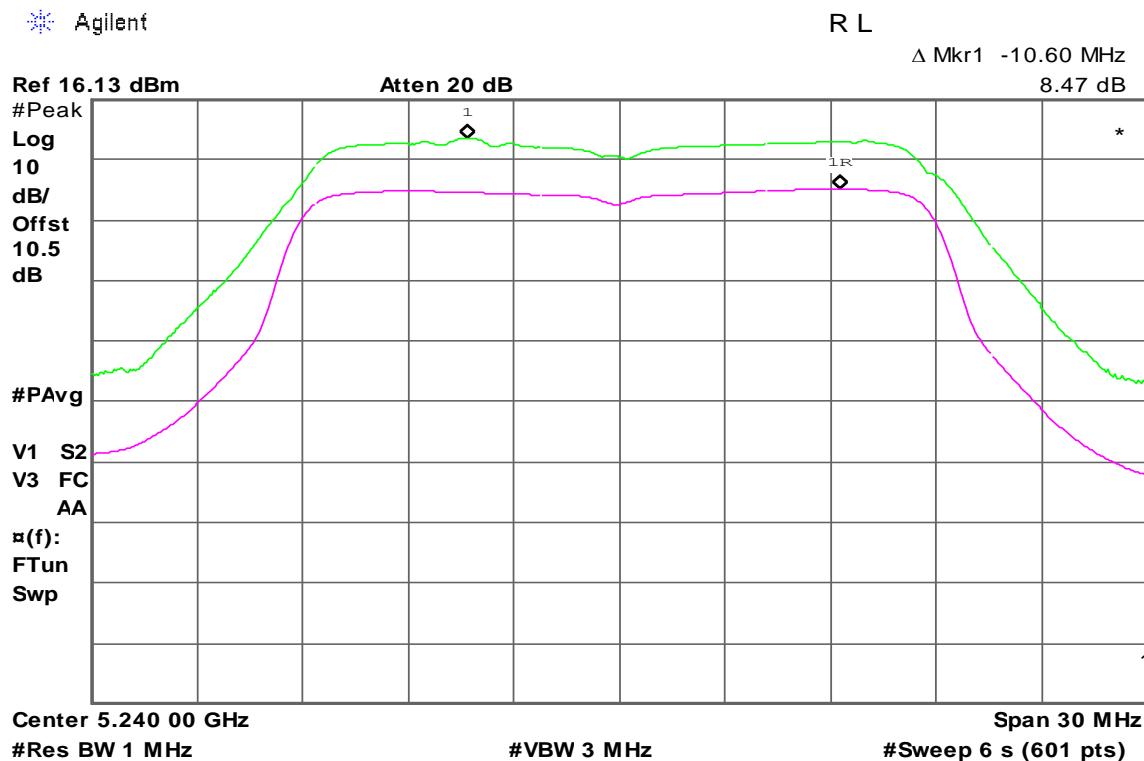
**CH High**

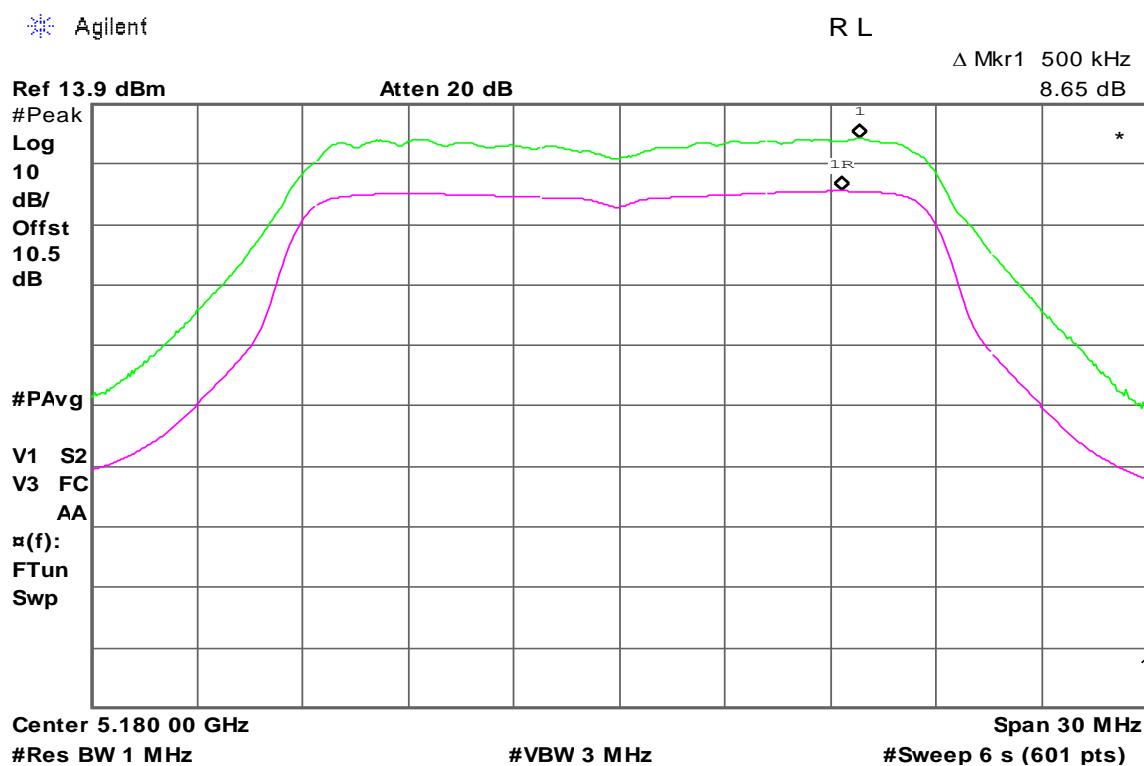
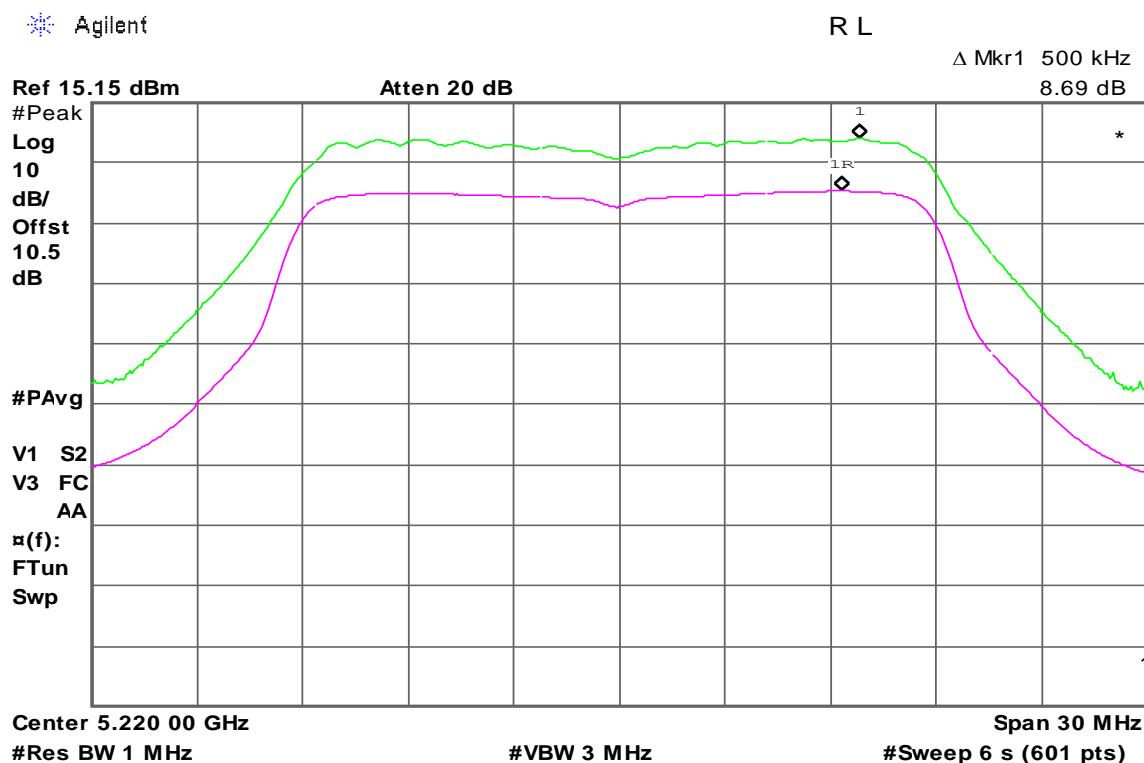
Agilent

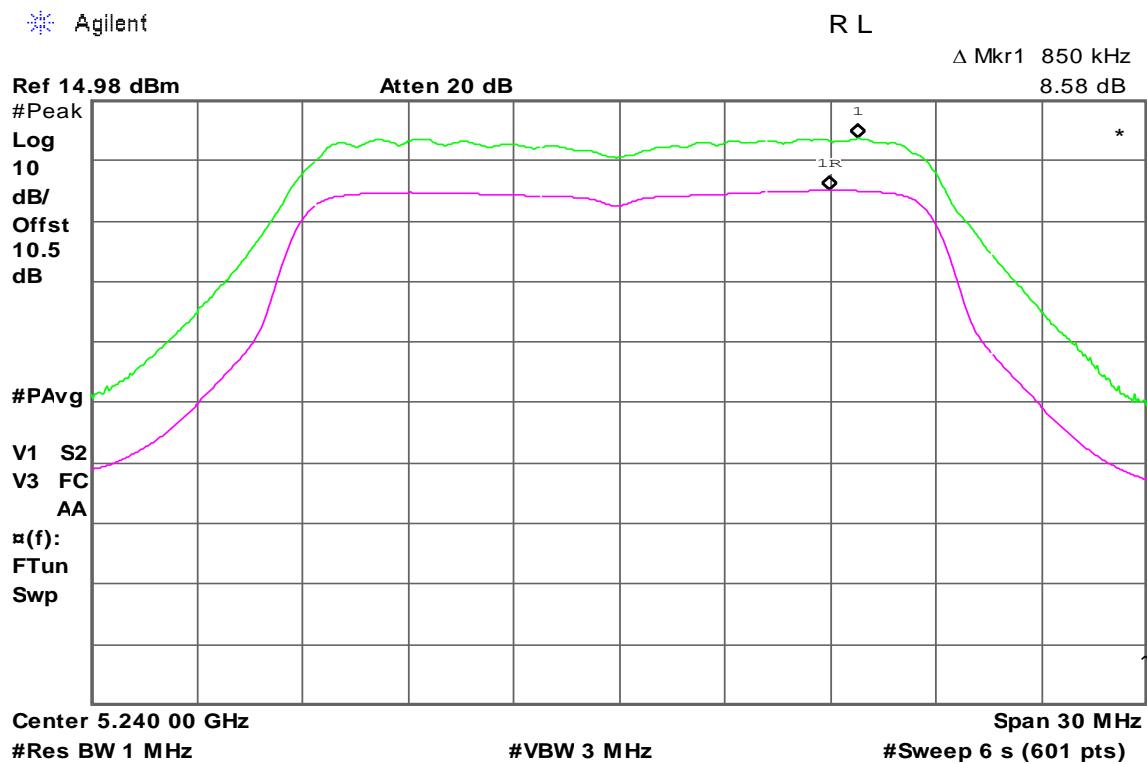
**IEEE 802.11n HT 20 MHz Channel mode / 5180 ~ 5240MHz / Chain 0****CH Low**

Agilent



**CH Mid****CH High**

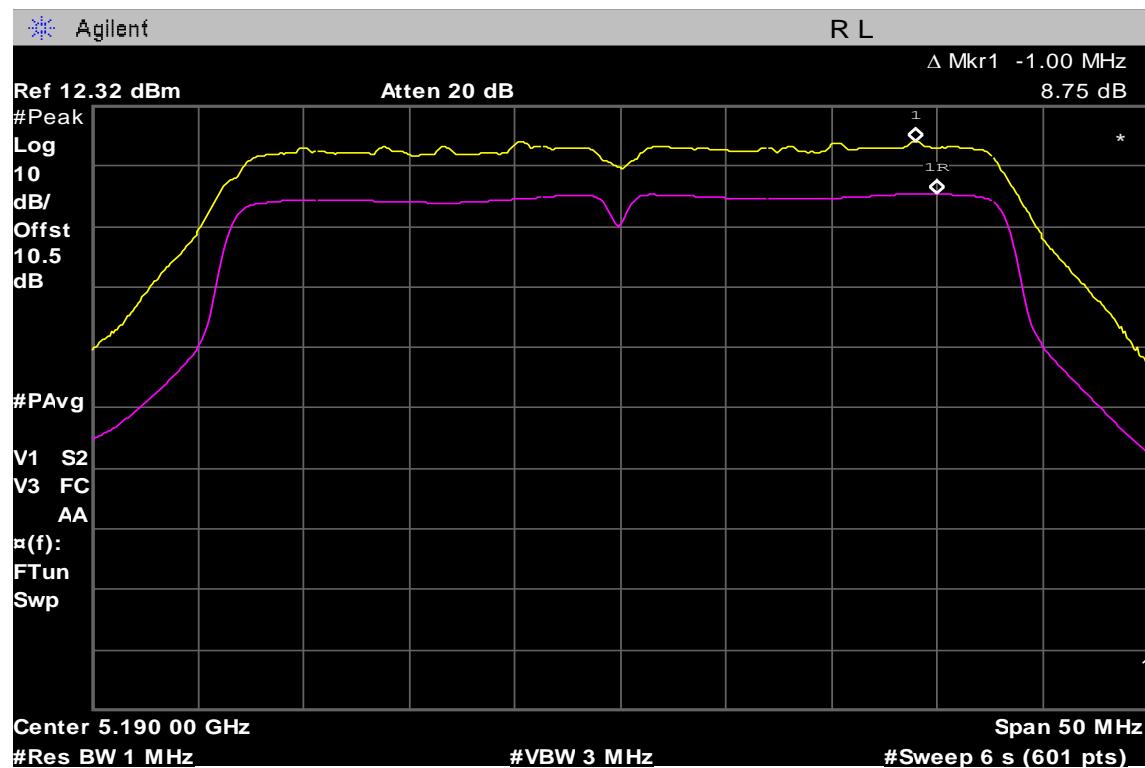
**IEEE 802.11n HT 20 MHz Channel mode / 5180 ~ 5240MHz / Chain 1****CH Low****CH Mid**

**CH High**

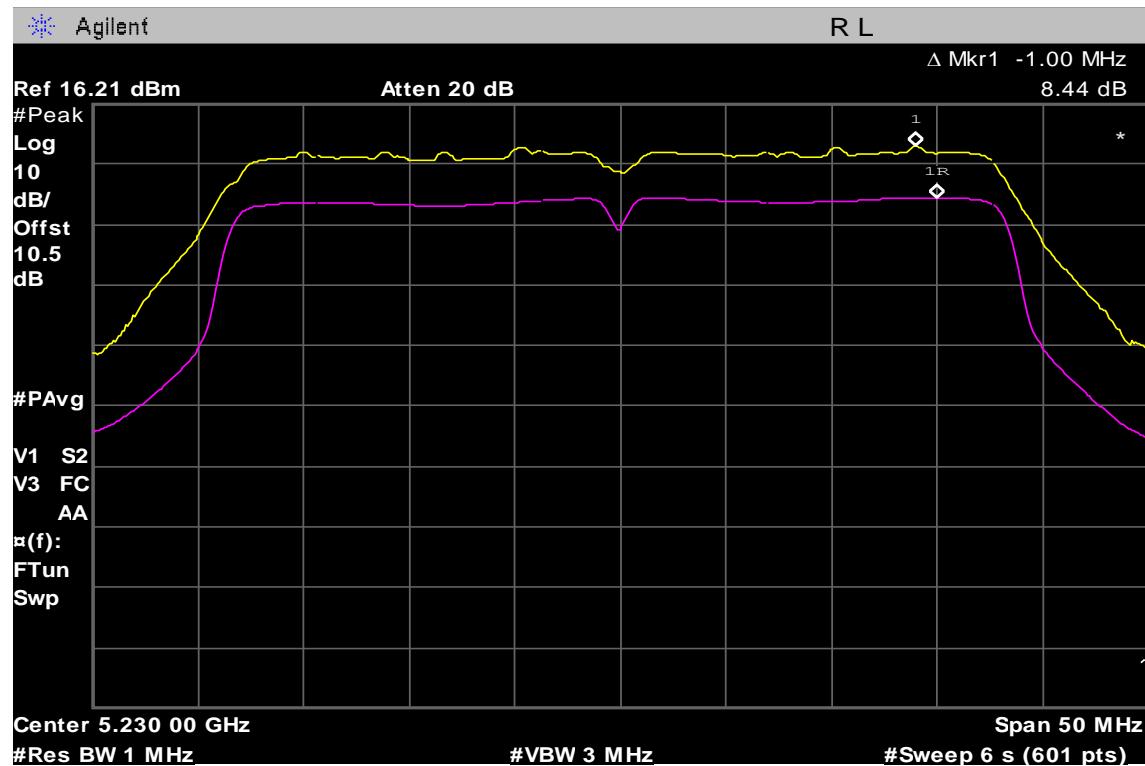


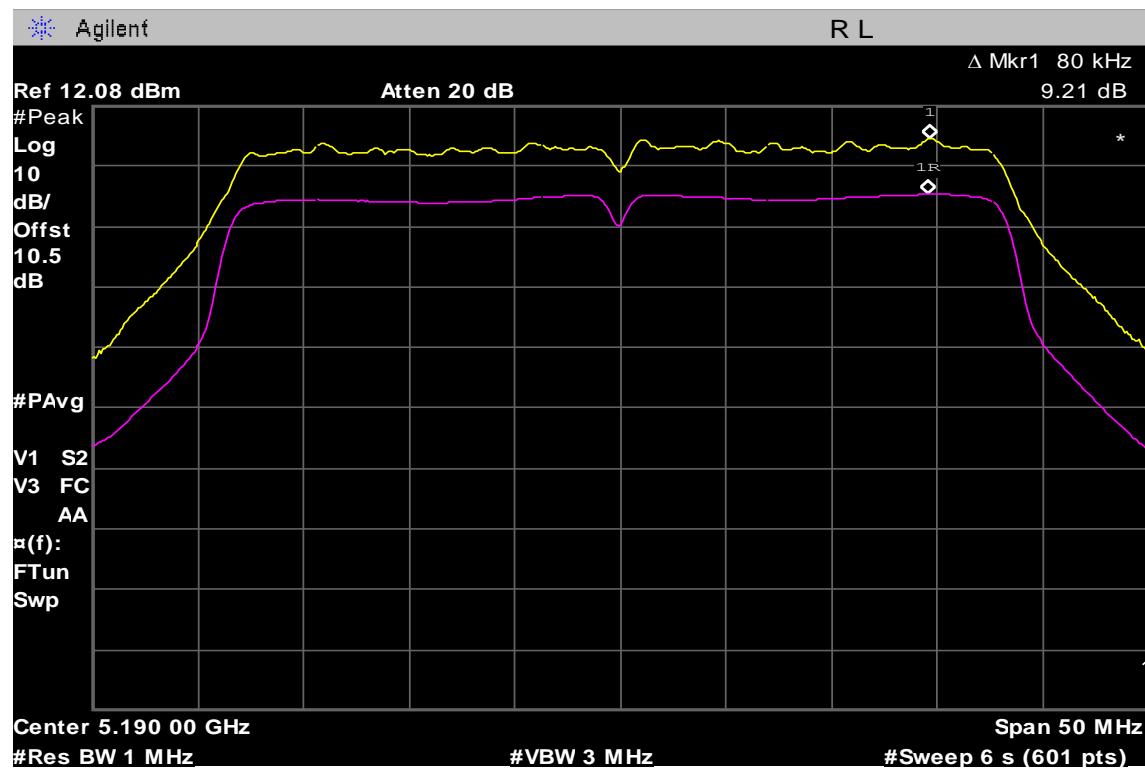
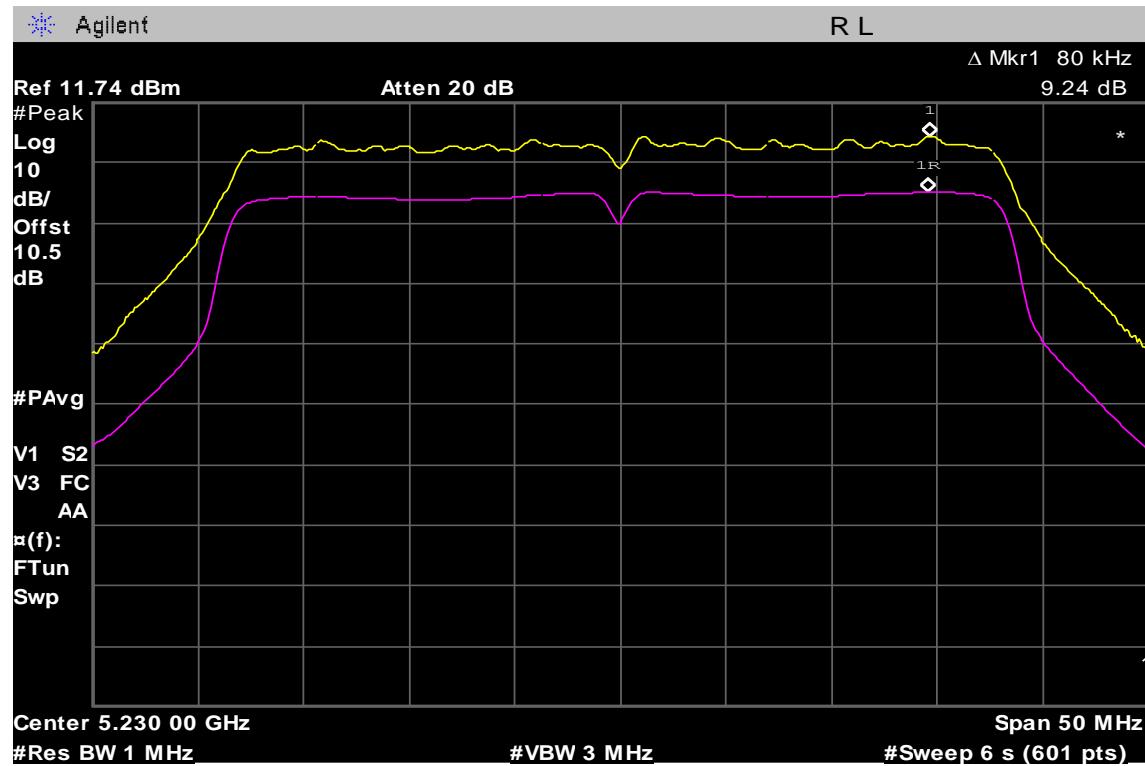
IEEE 802.11n HT 40 MHz mode / 5190 ~ 5230MHz / Chain 0

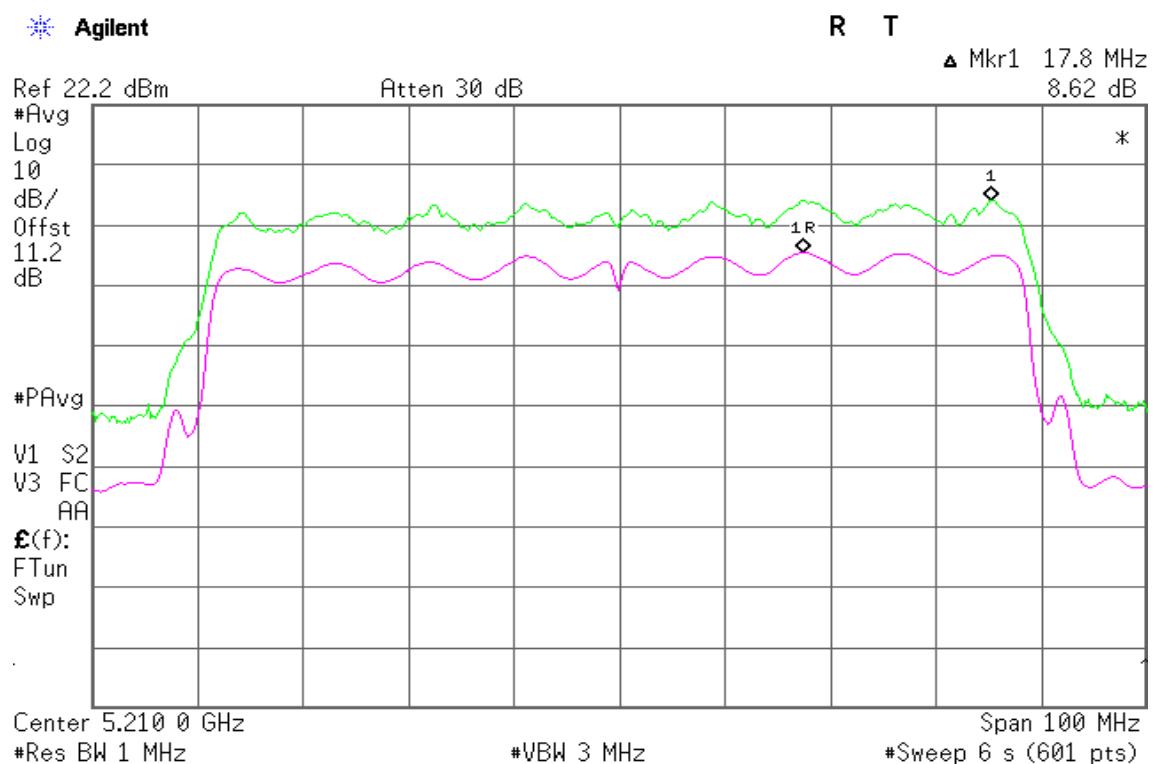
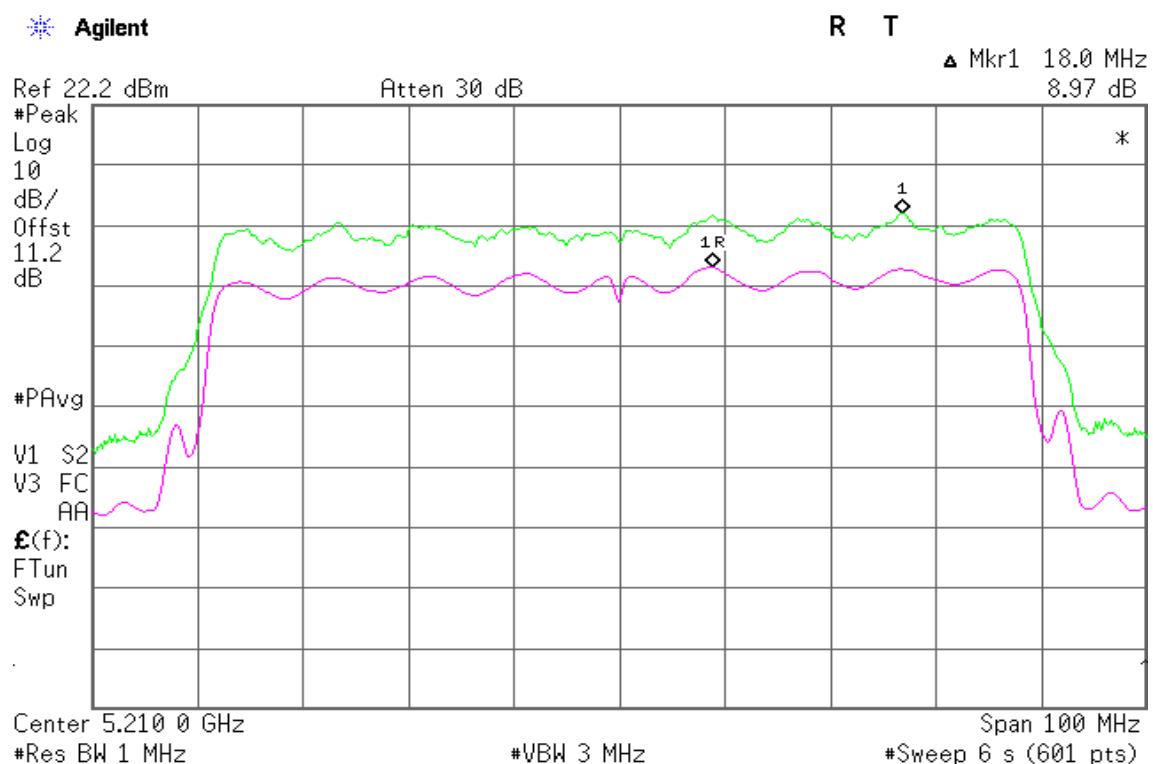
CH Low

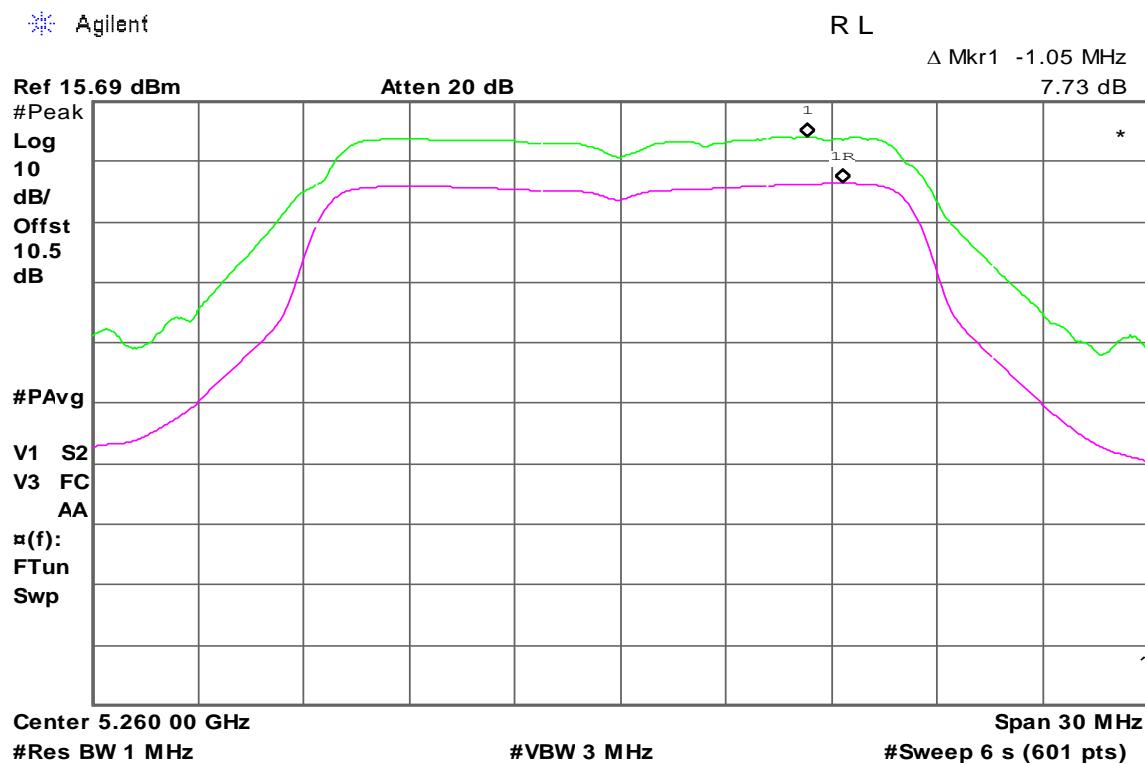
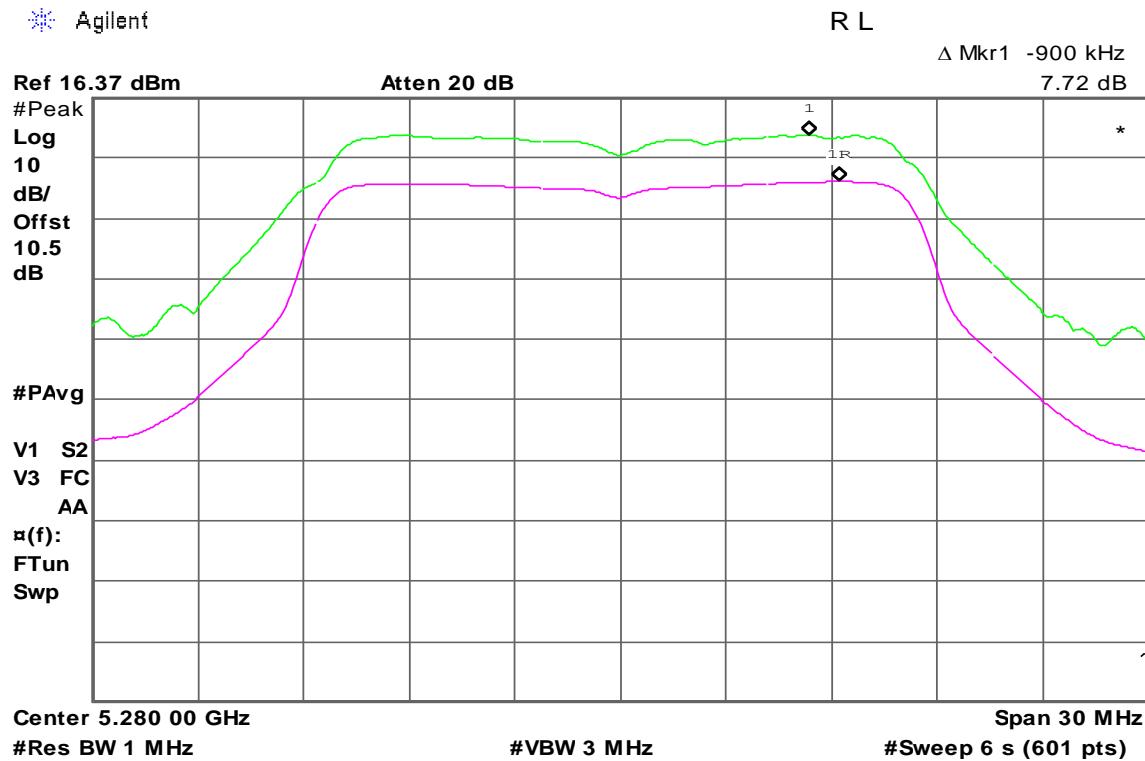


CH High



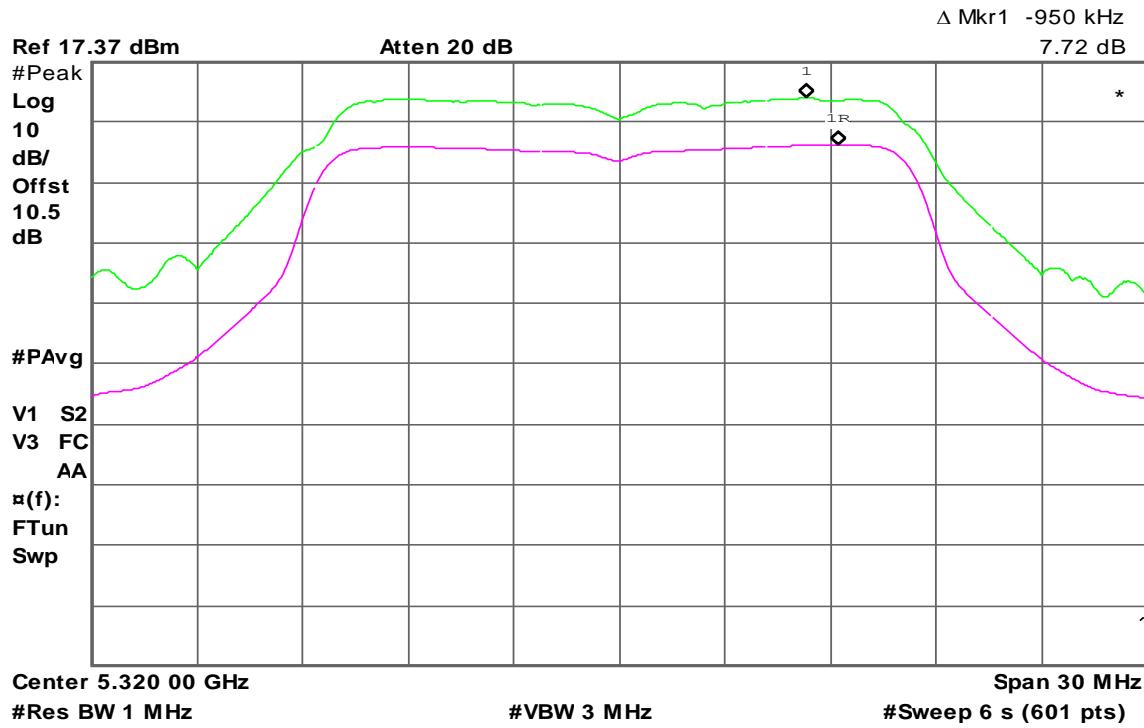
**IEEE 802.11n HT 40 MHz mode / 5190 ~ 5230MHz / Chain 1****CH Low****CH High**

**IEEE 802.11n HT 80 MHz mode / 5210MHz / Chain 0****IEEE 802.11n HT 80 MHz mode / 5210MHz / Chain 1**

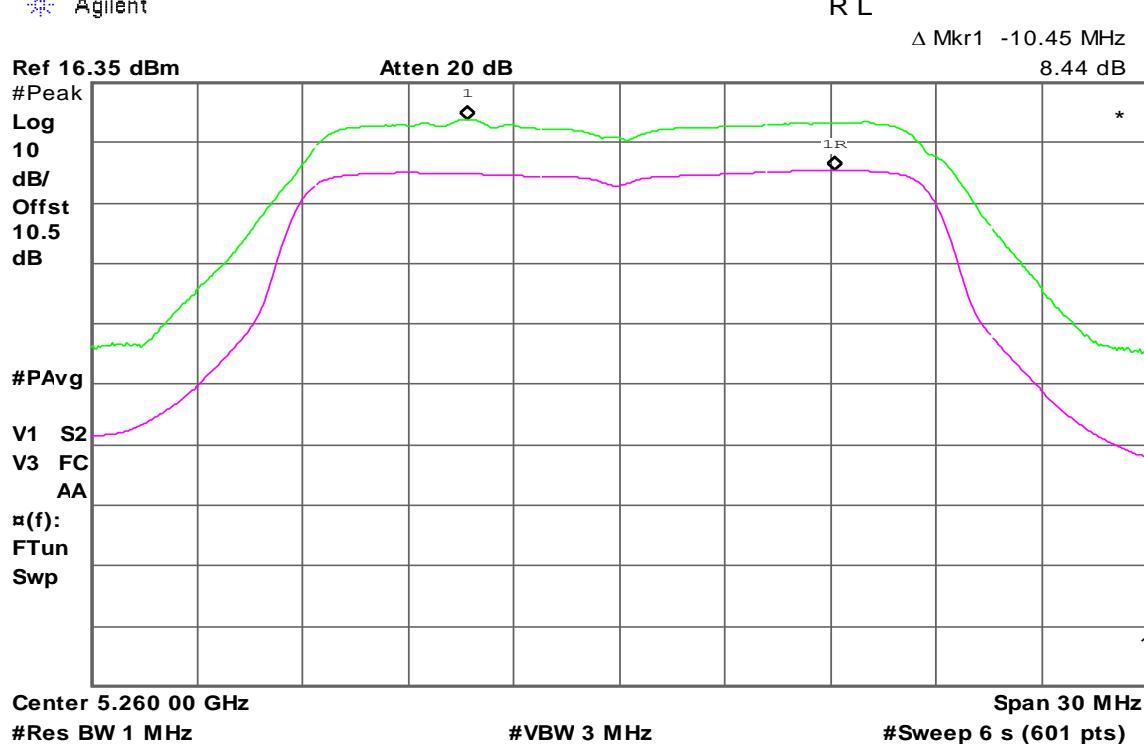
**IEEE 802.11a mode / 5260 ~ 5320MHz****CH Low****CH Mid**

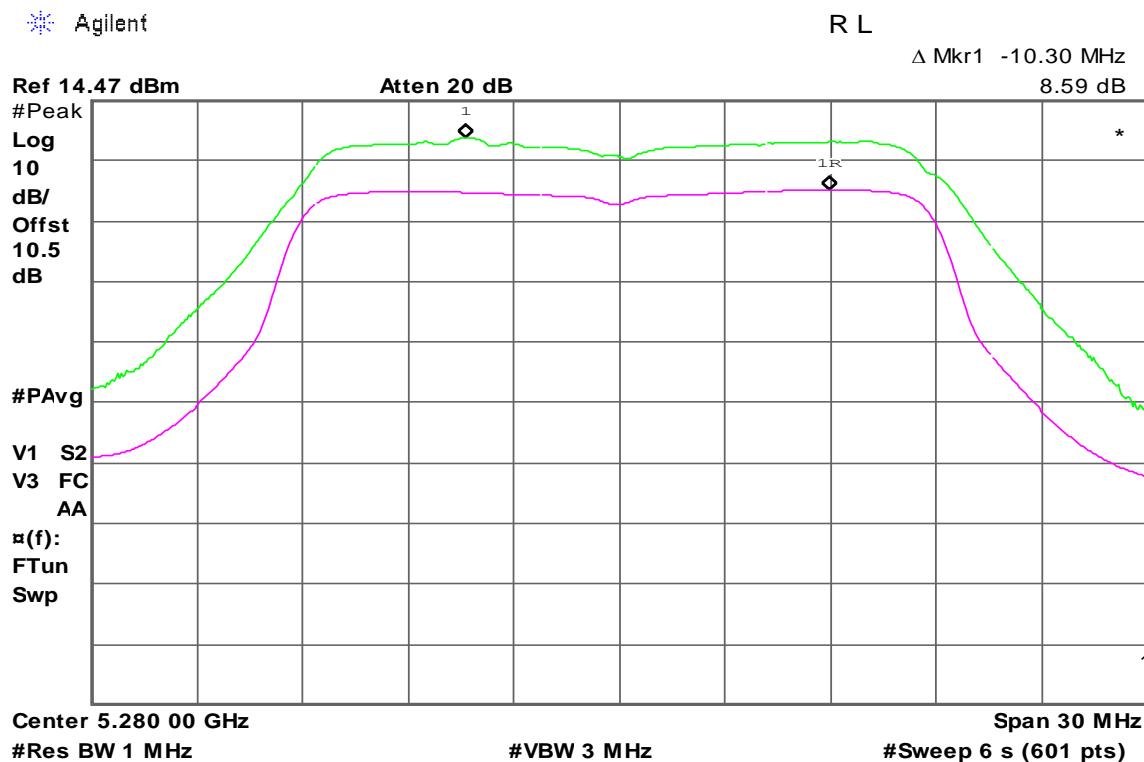
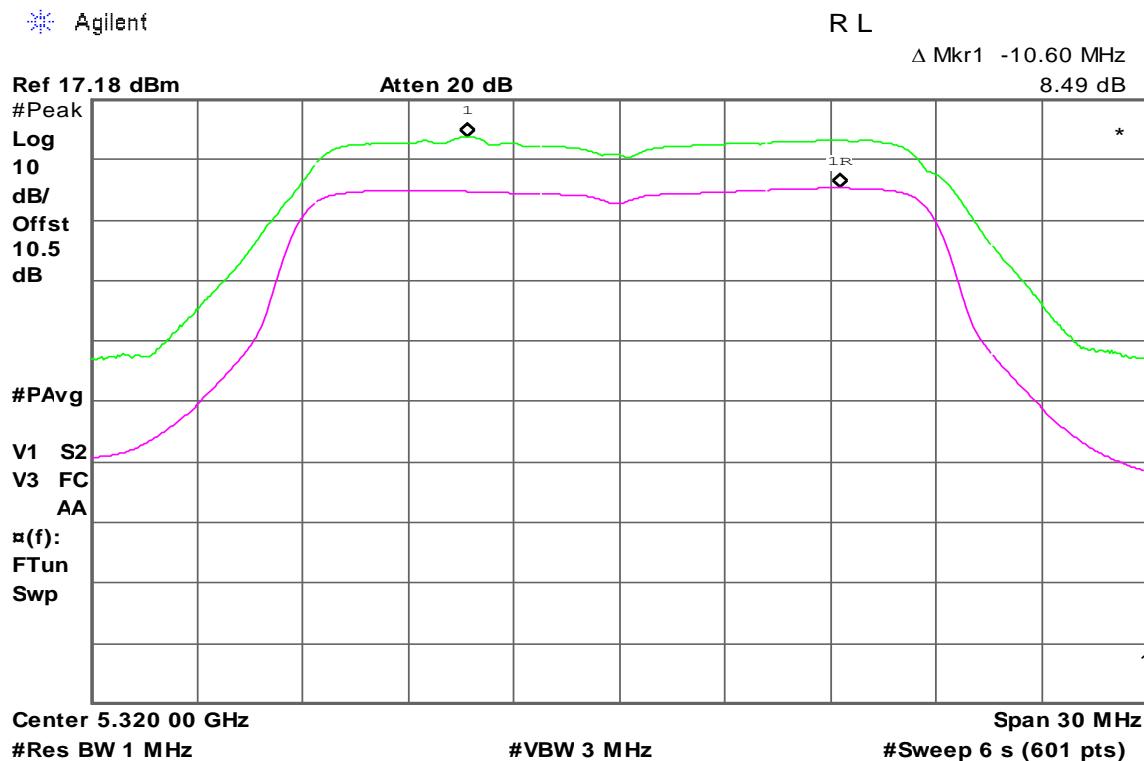
**CH High**

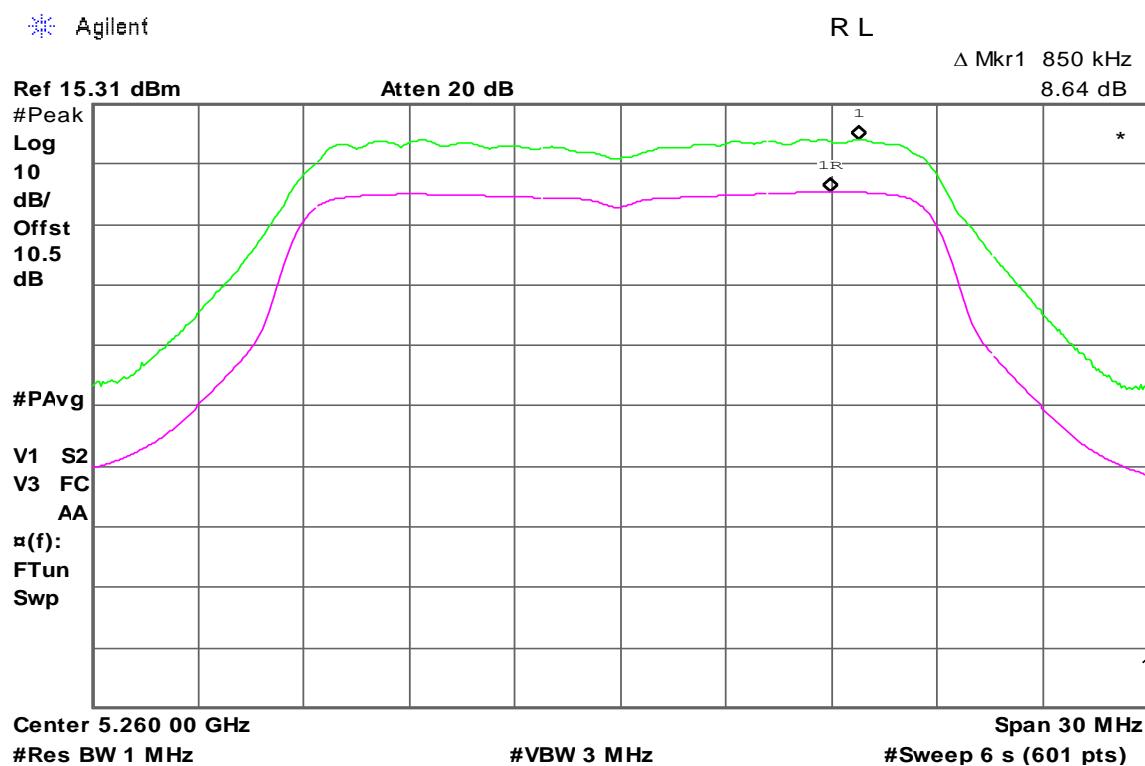
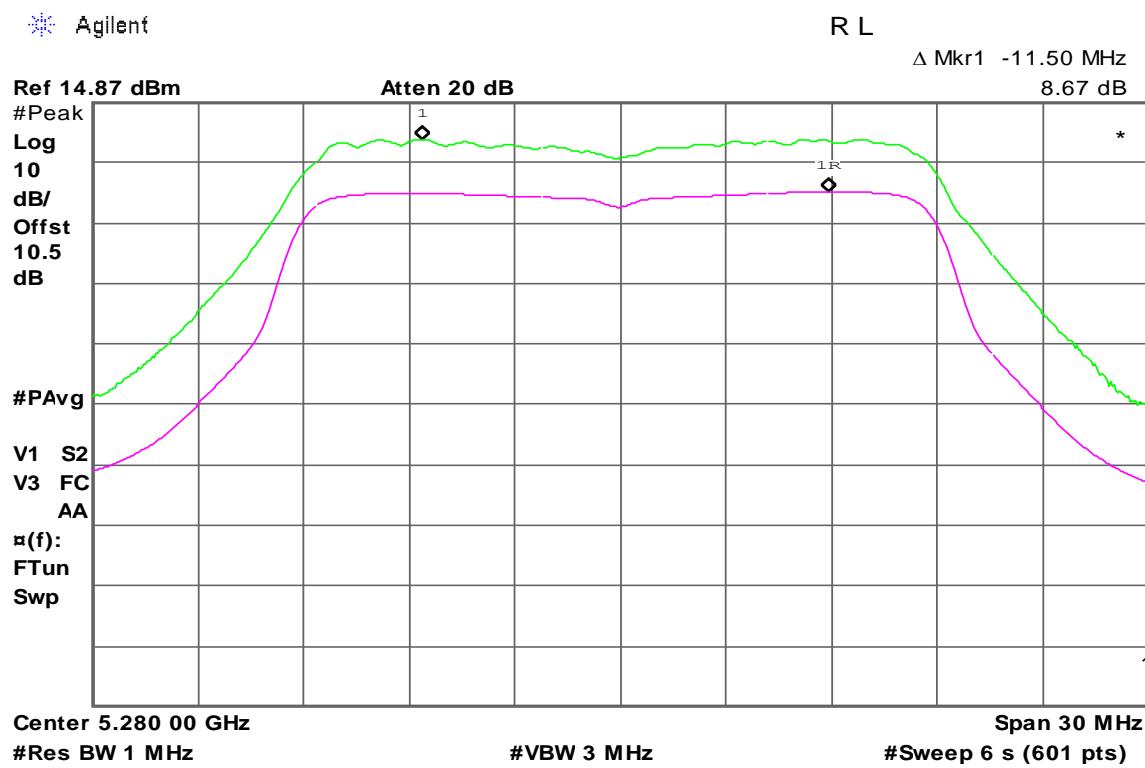
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**CH Low**

Agilent

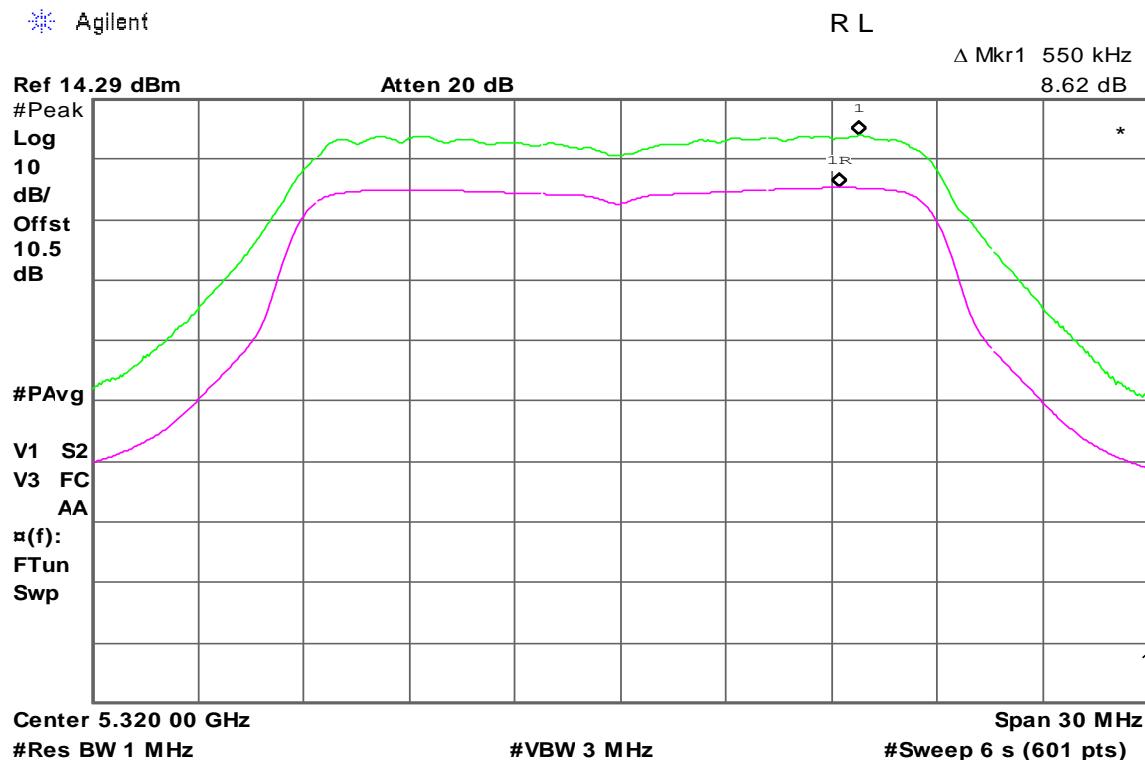


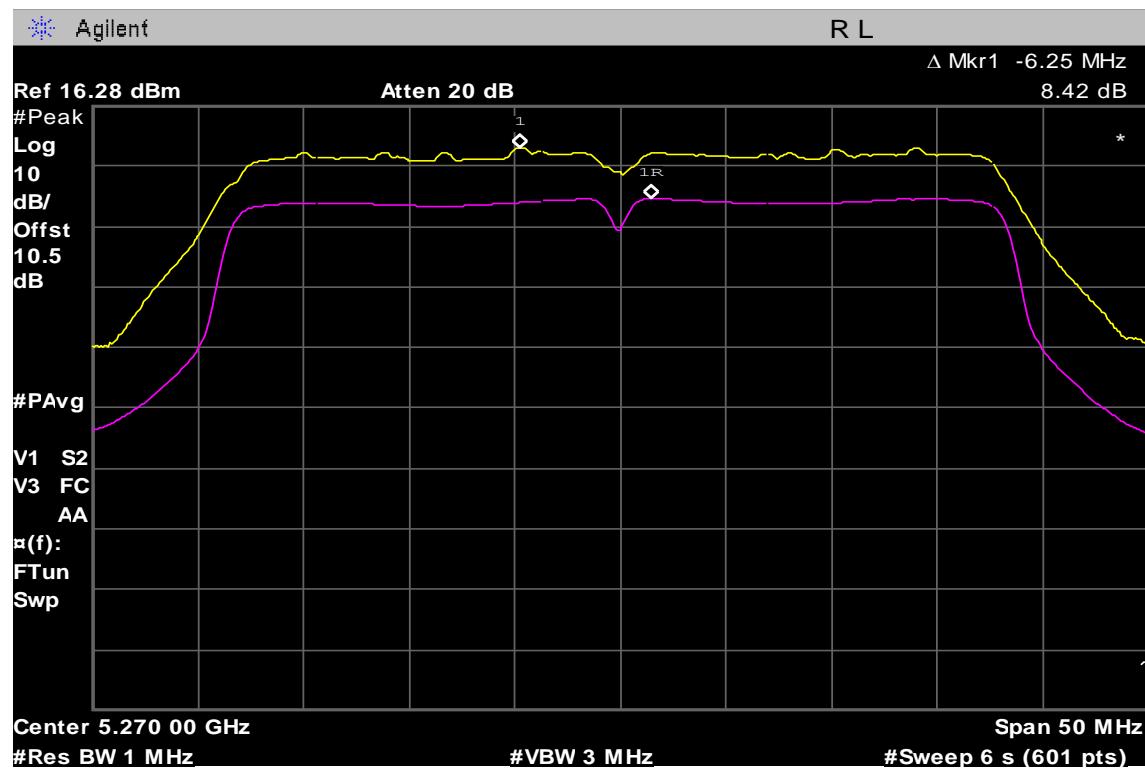
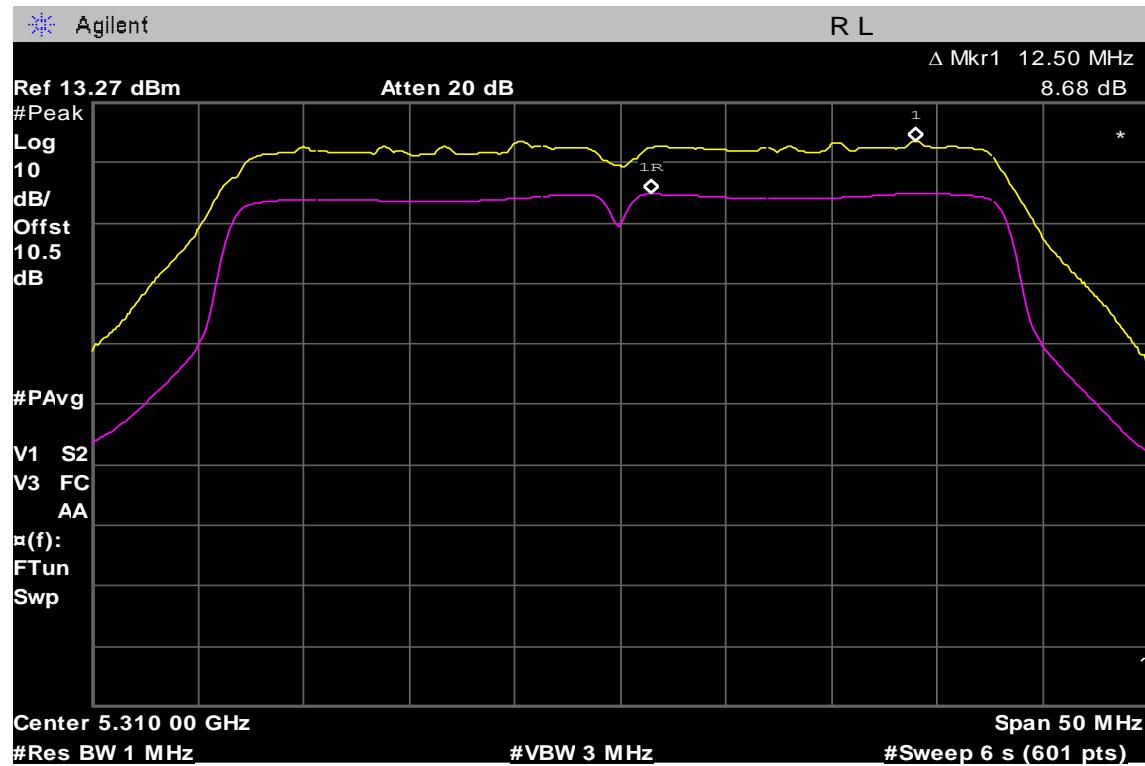
**CH Mid****CH High**

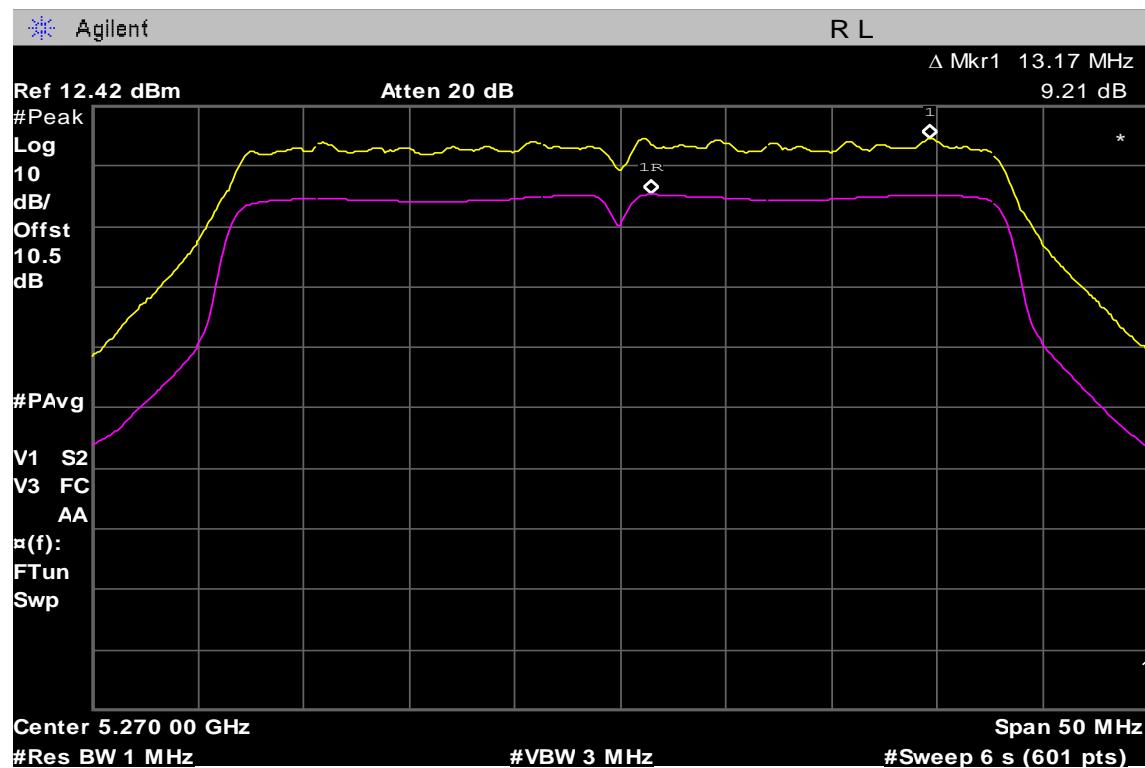
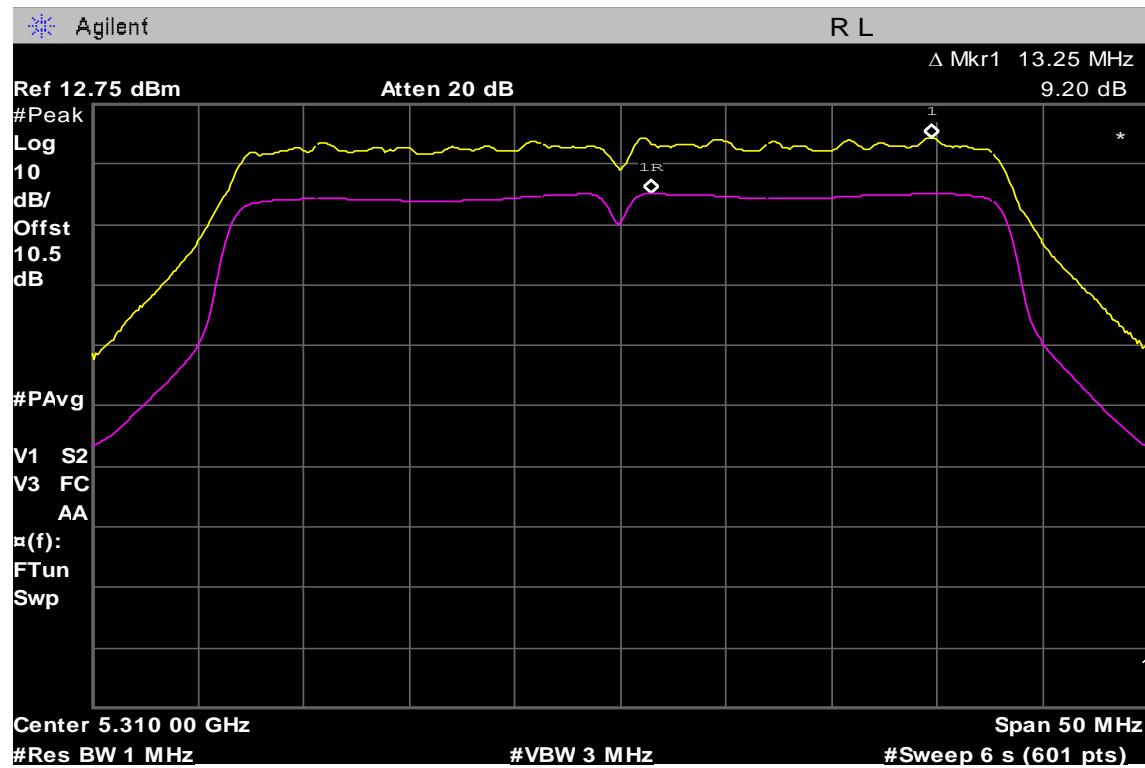
**IEEE 802.11n HT 20 MHz Channel mode / 5260 ~ 5320MHz / Chain 1****CH Low****CH Mid**

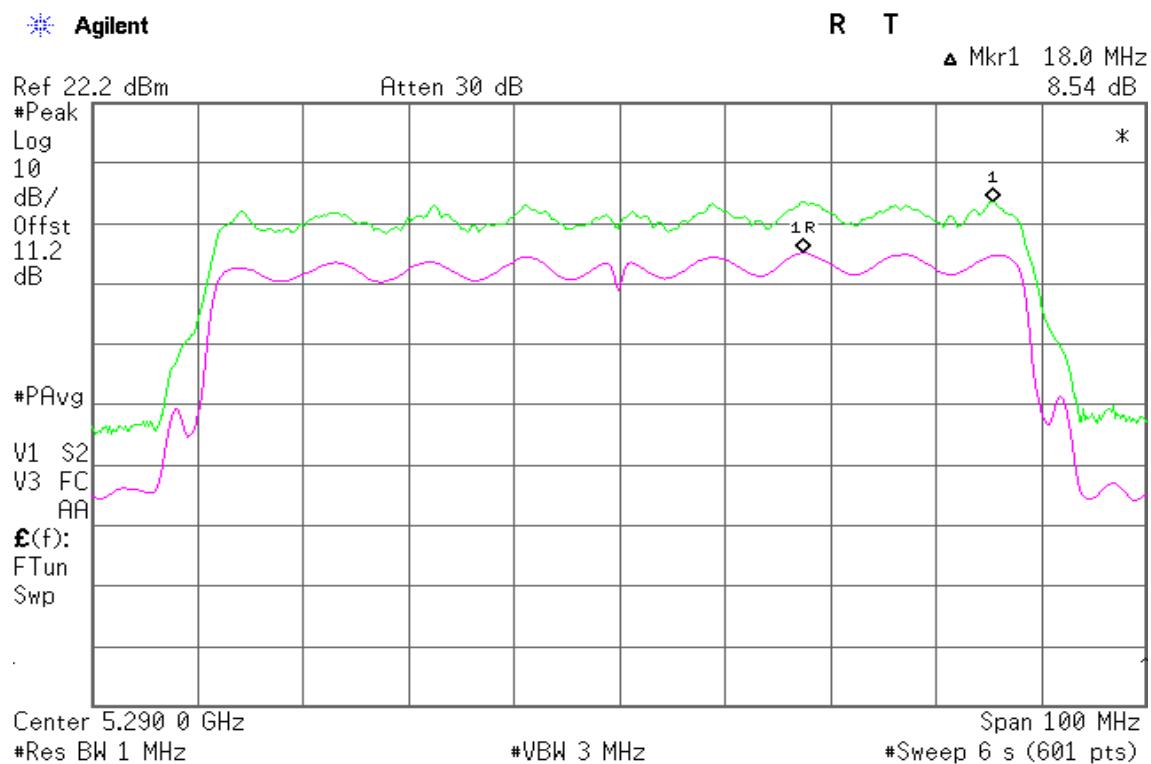
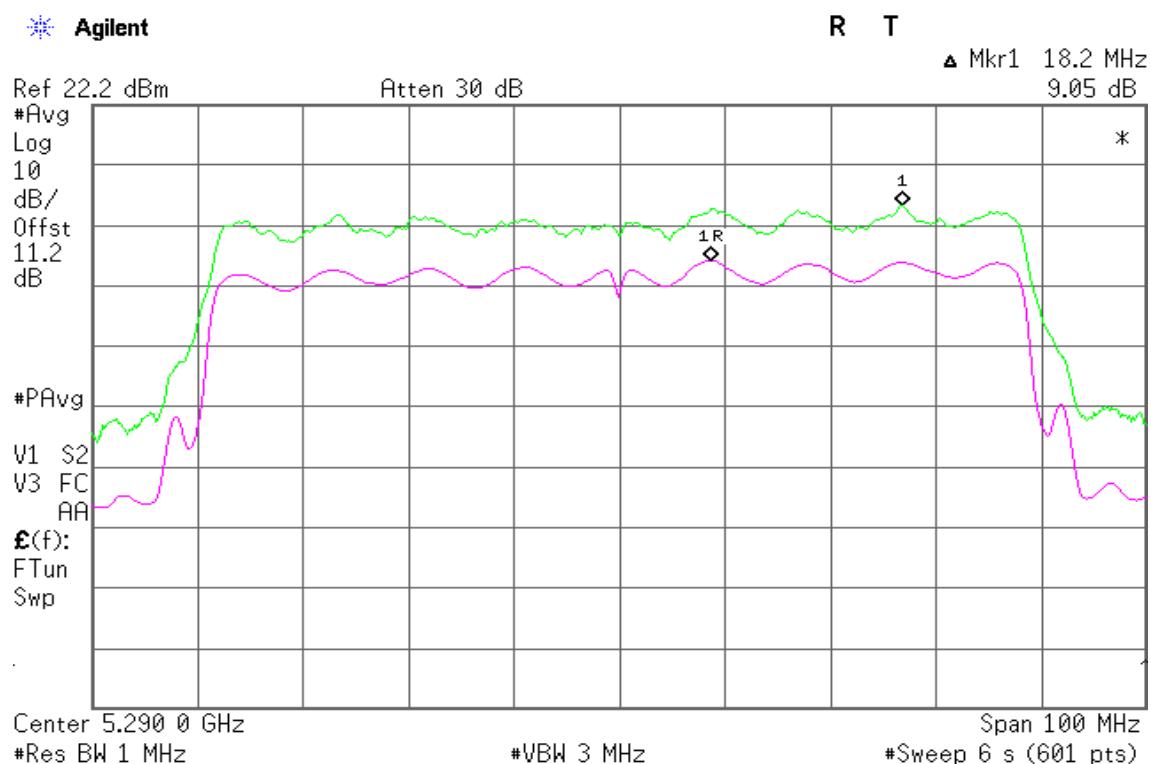
**CH High**

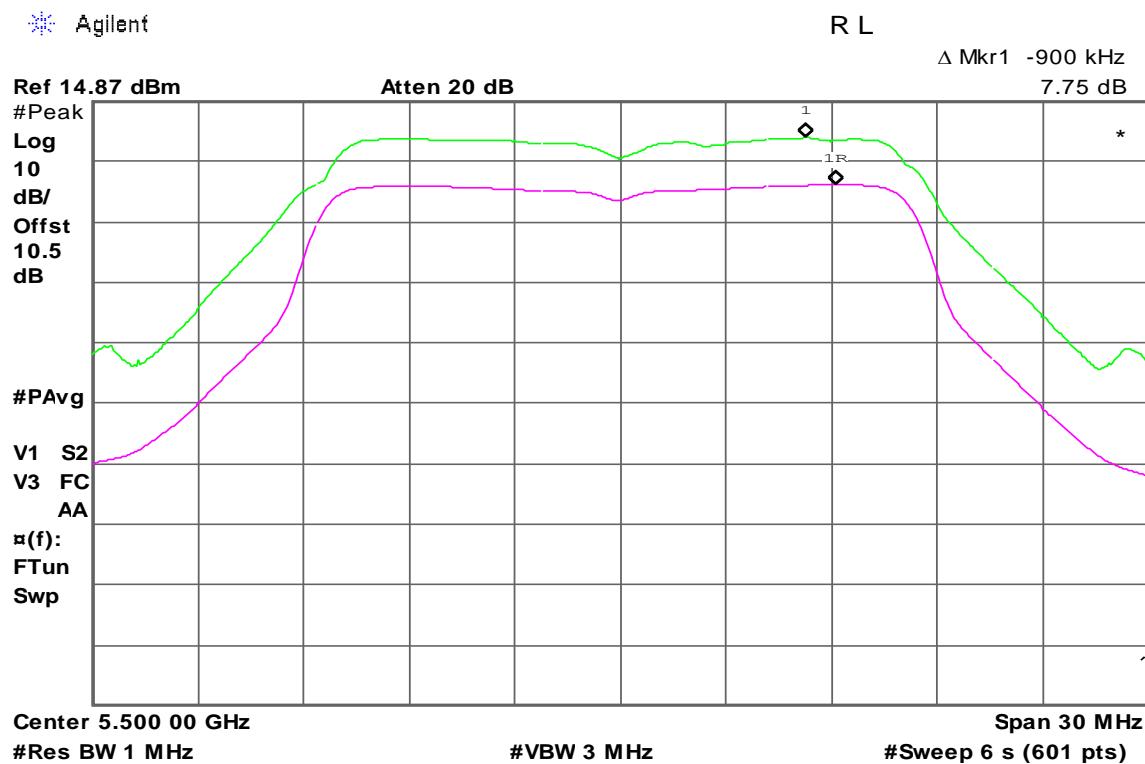
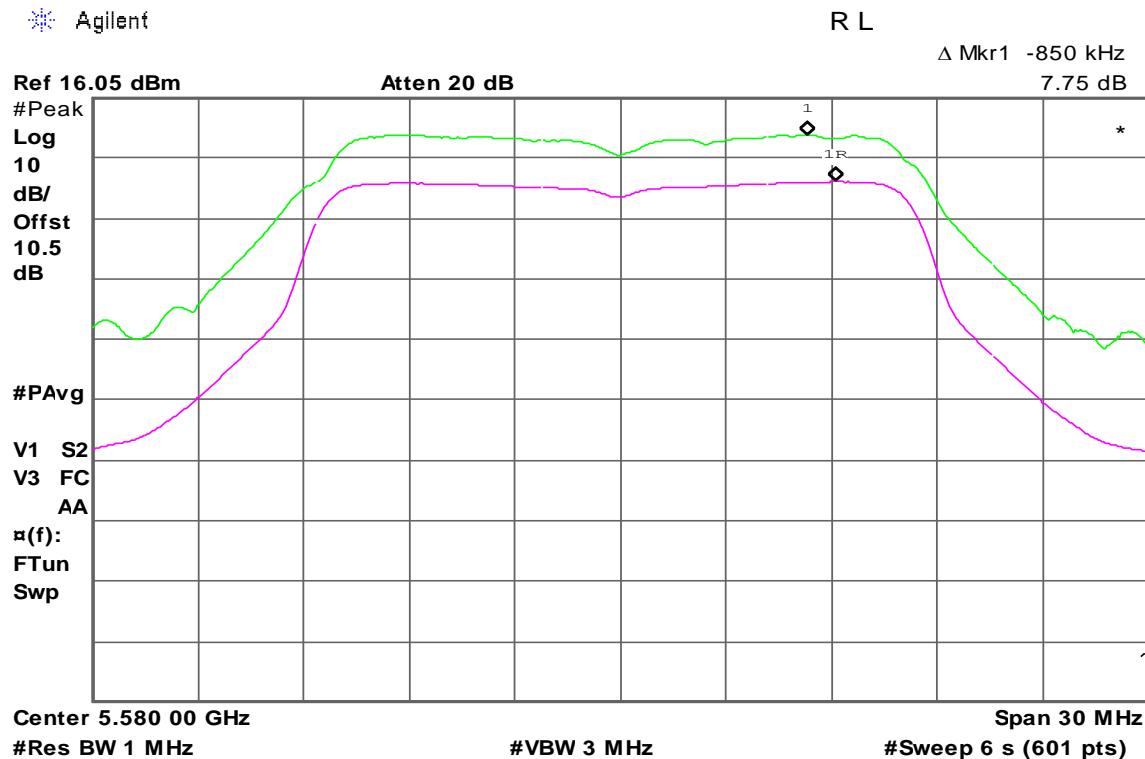
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**IEEE 802.11n HT 40 MHz mode / 5270 ~ 5310MHz / Chain 0****CH Low****CH High**

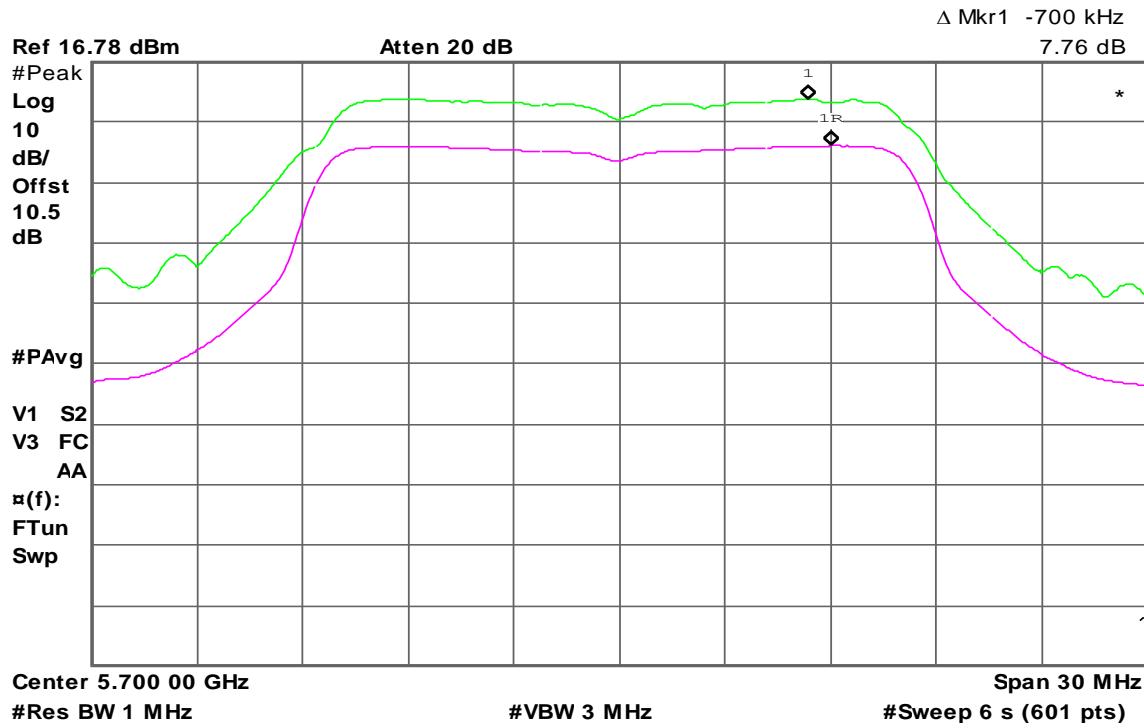
**IEEE 802.11n HT 40 MHz mode / 5270 ~ 5310MHz / Chain 1****CH Low****CH High**

IEEE 802.11n HT 80 MHz mode / 5290MHz / Chain 0IEEE 802.11n HT 80 MHz mode / 5290MHz / Chain 1

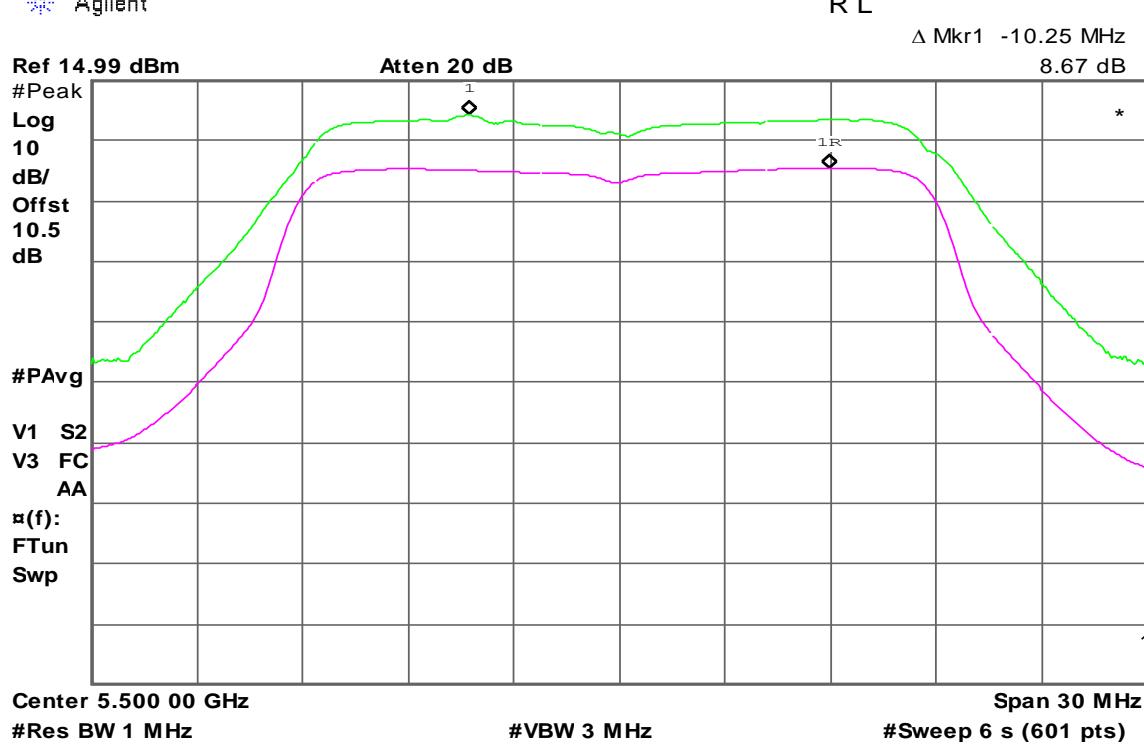
**Test mode: IEEE 802.11a mode / 5500 ~ 5700MHz****CH Low****CH Mid**

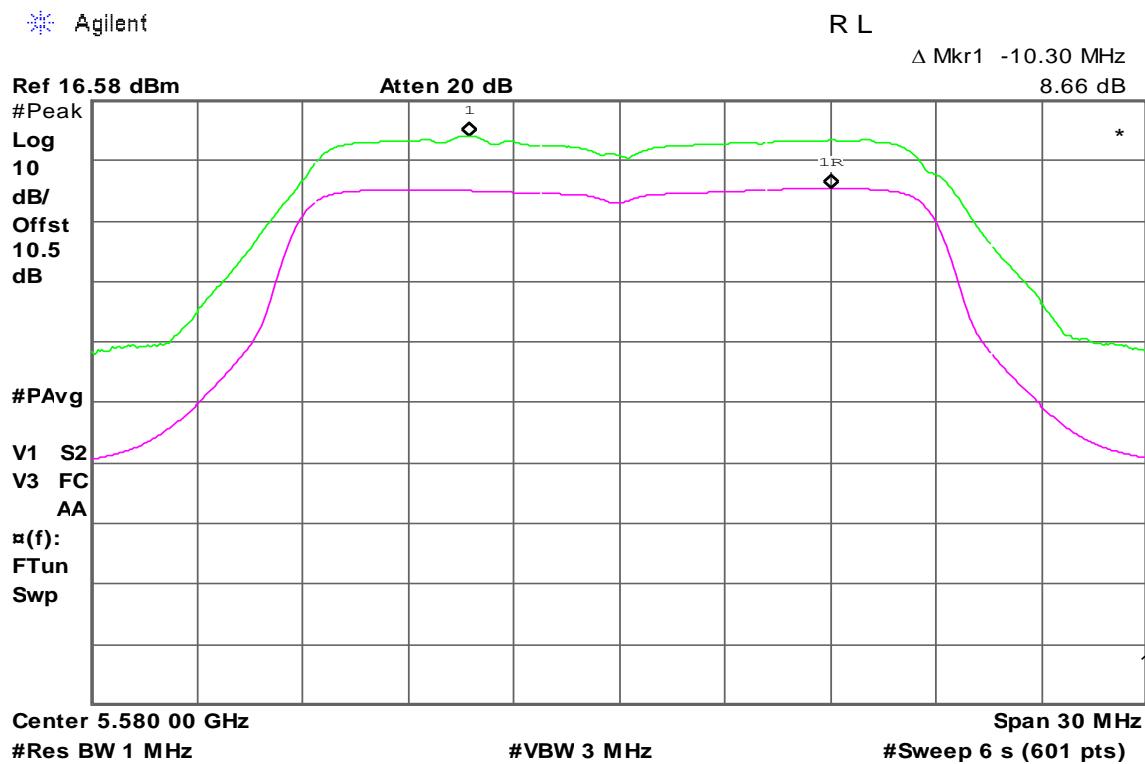
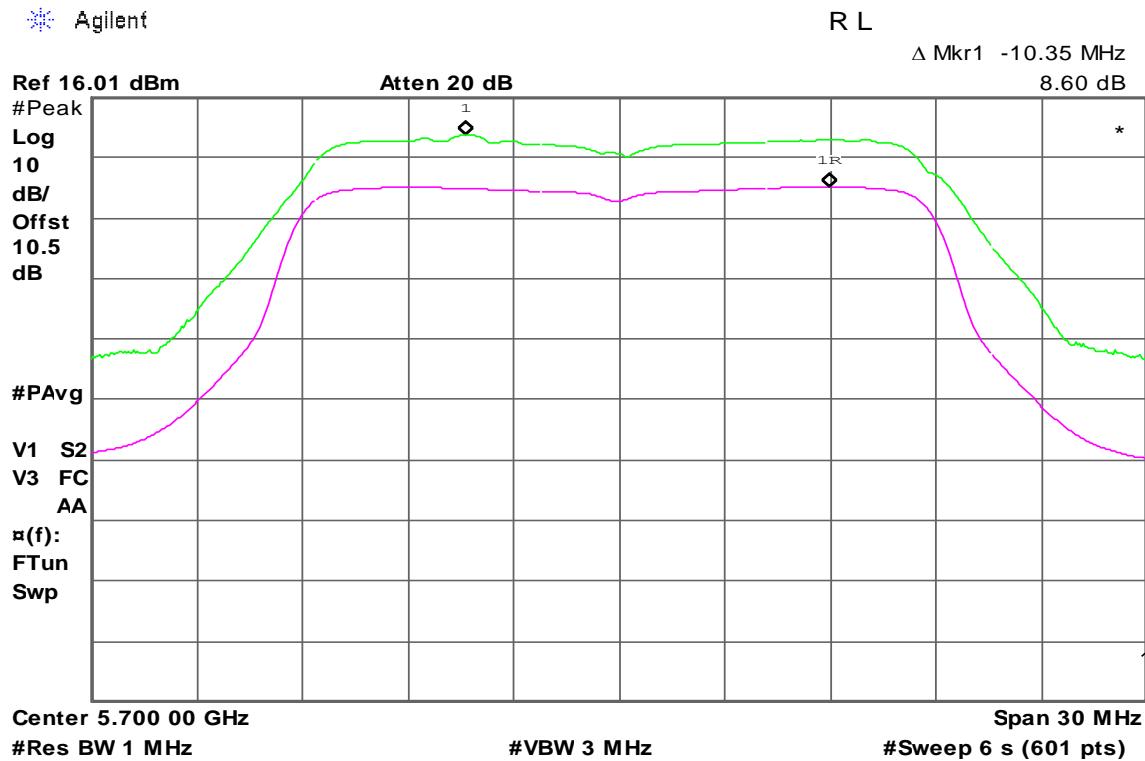
**CH High**

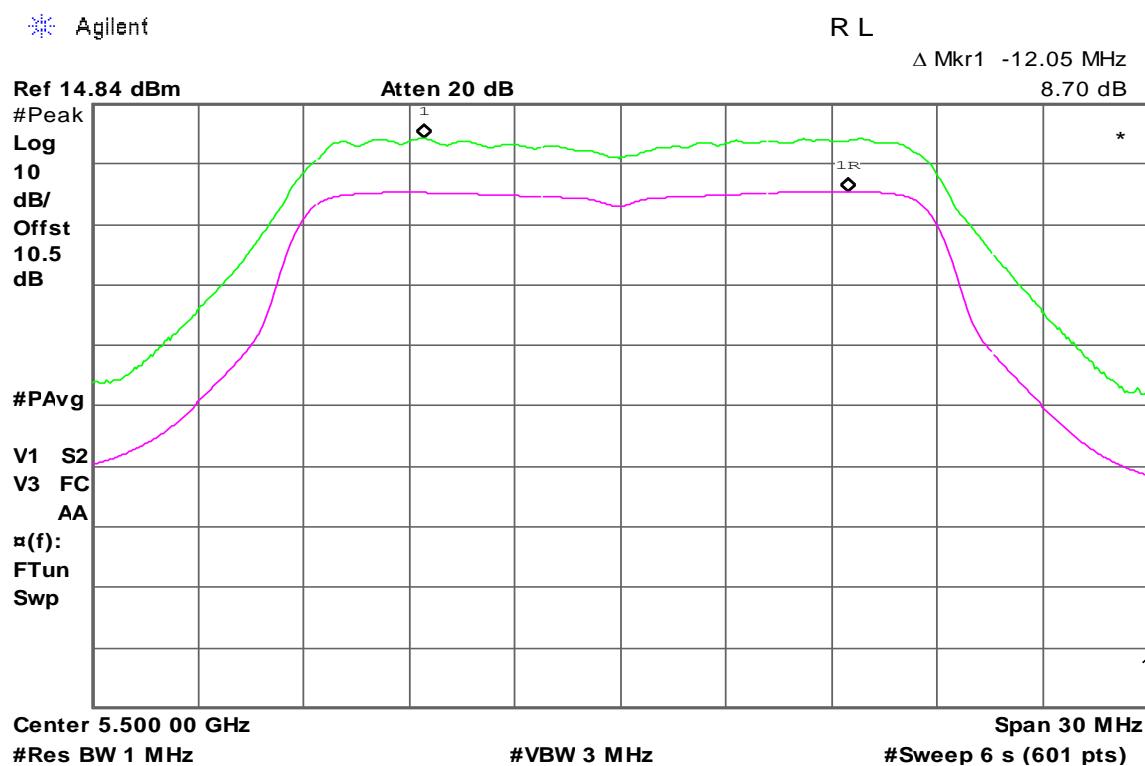
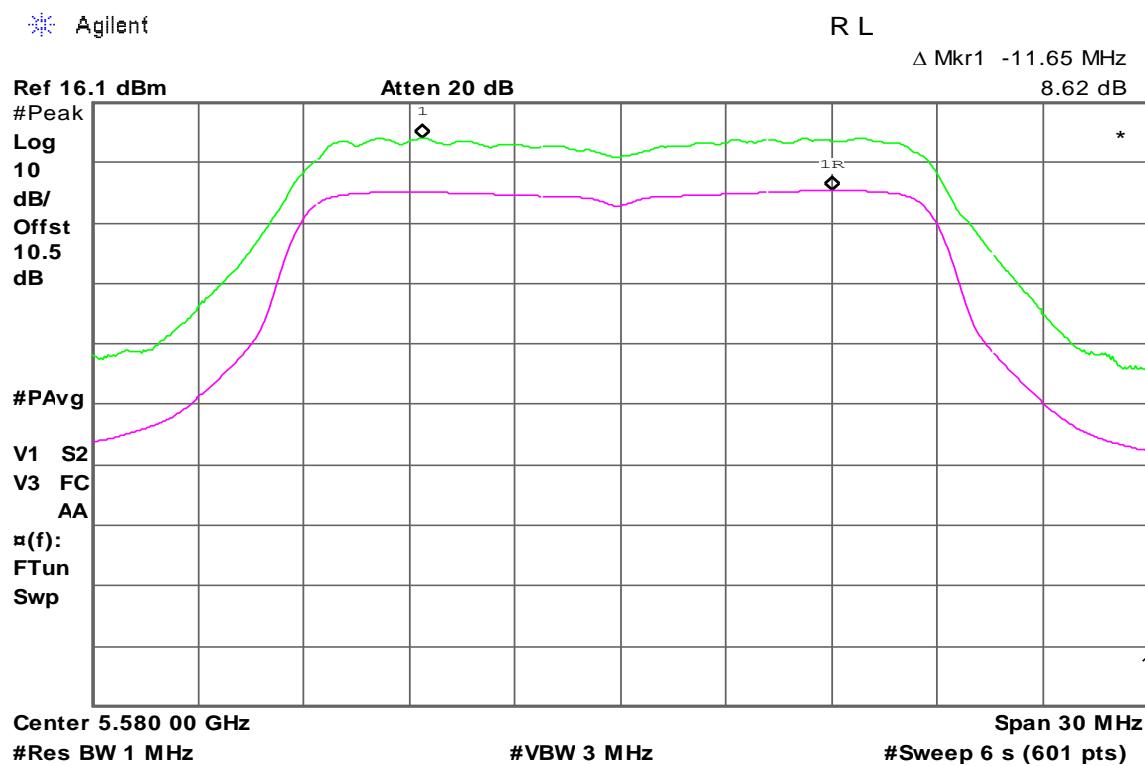
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**IEEE 802.11n HT 20 MHz Channel mode / 5500 ~ 5700MHz / Chain 0****CH Low**

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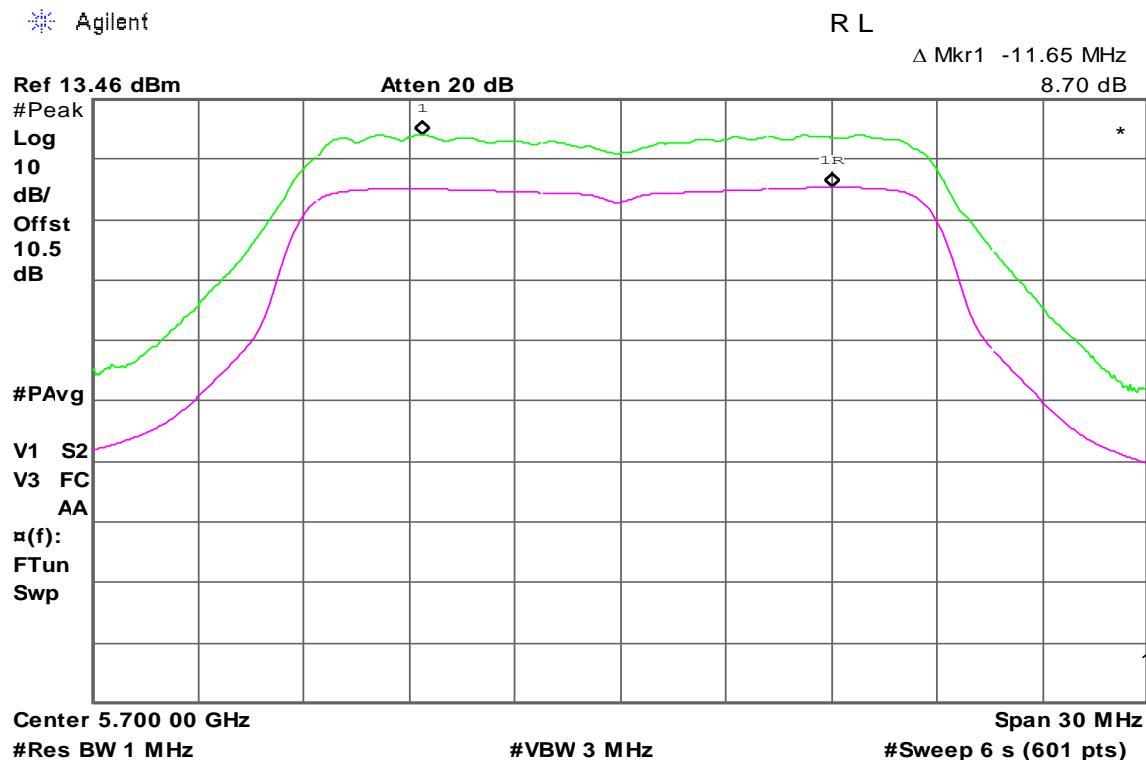


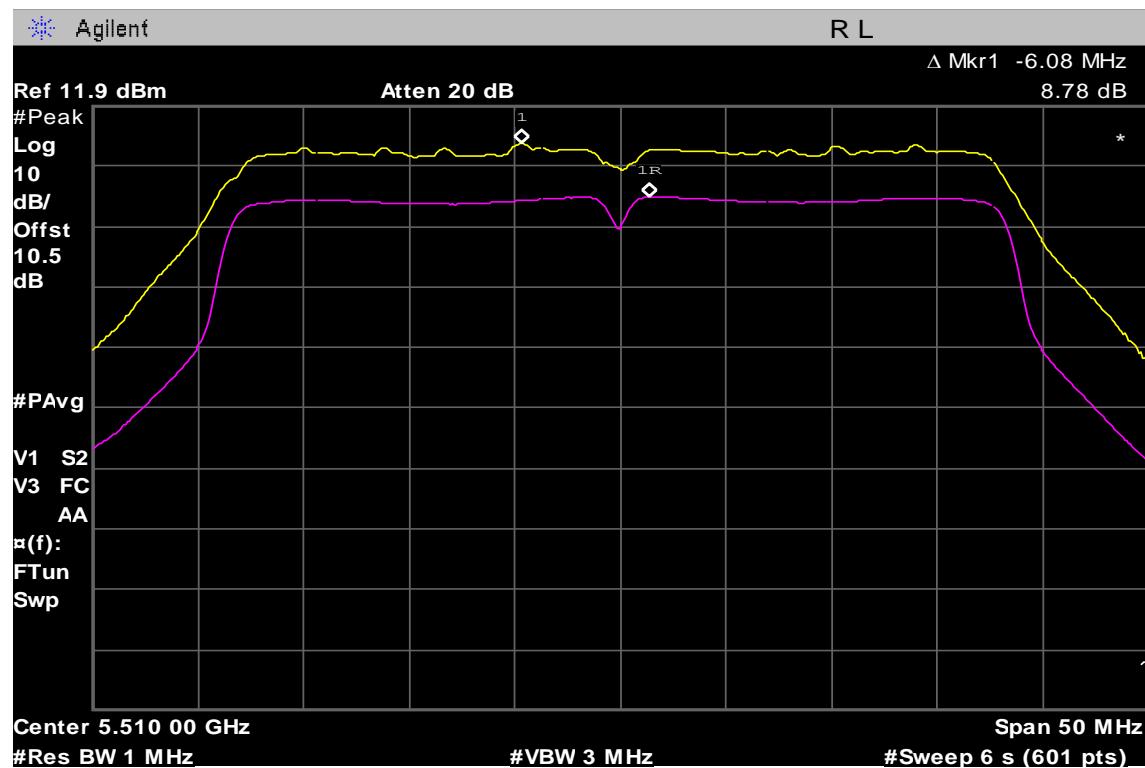
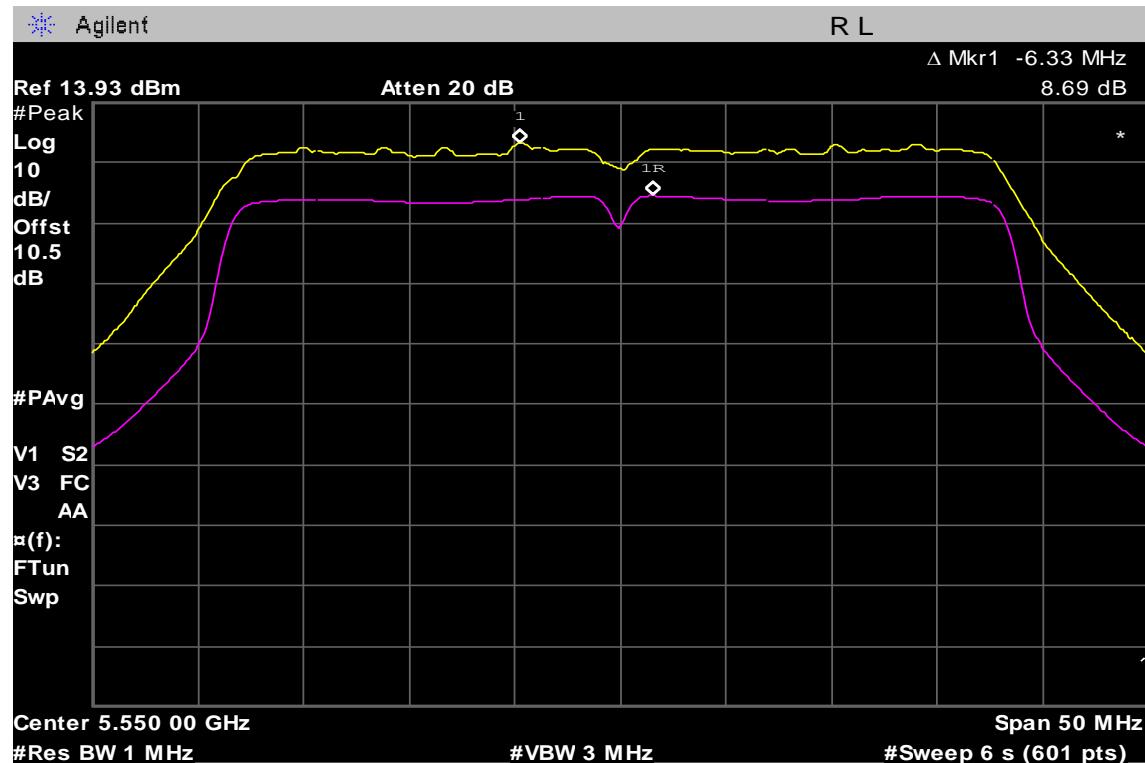
**CH Mid****CH High**

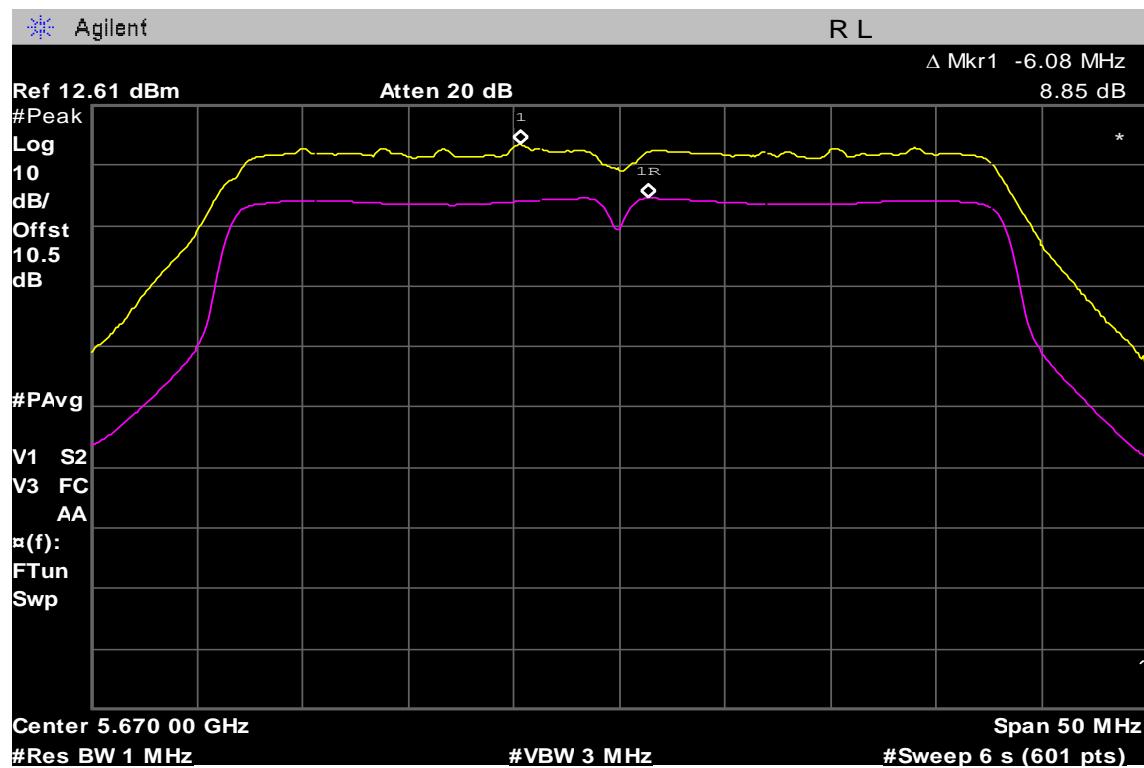
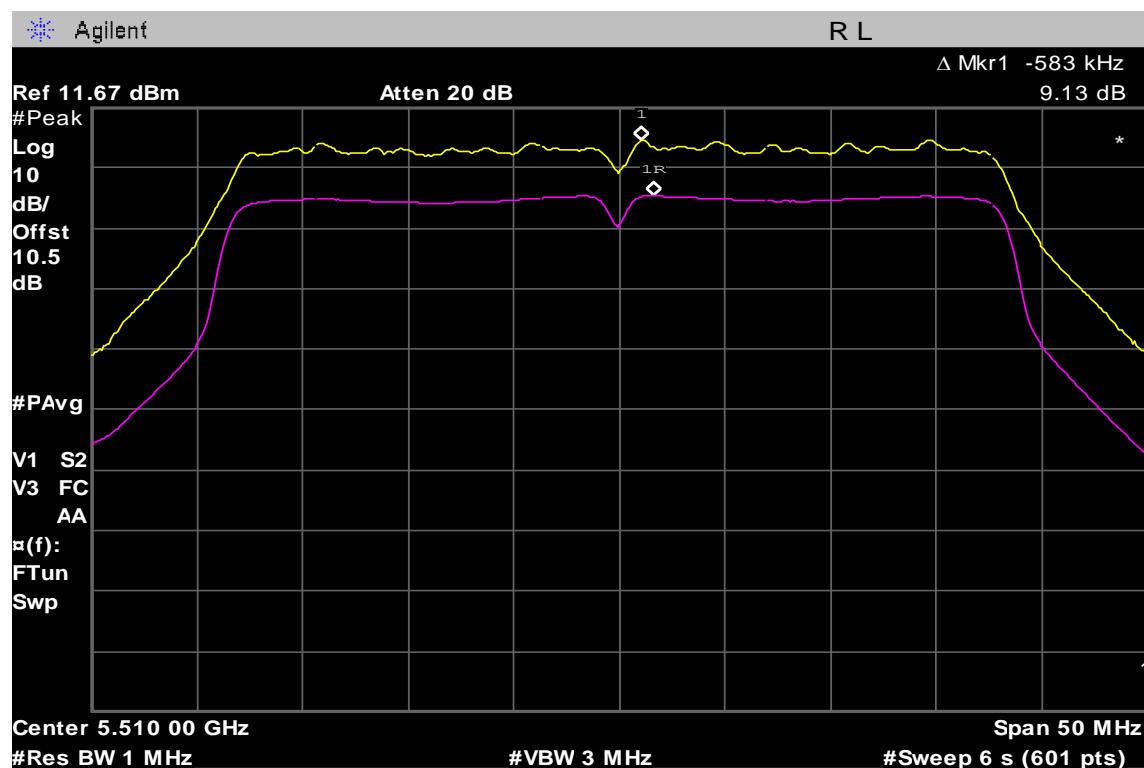
**IEEE 802.11n HT 20 MHz Channel mode / 5500 ~ 5700MHz / Chain 1****CH Low****CH Mid**

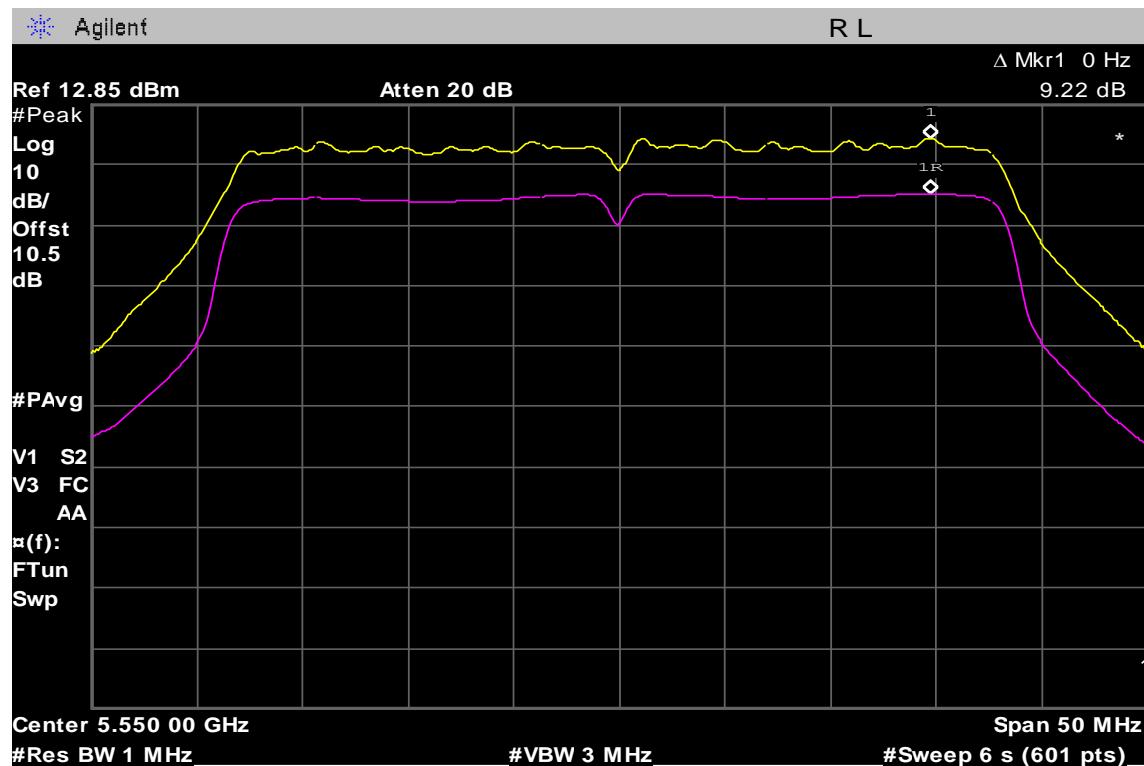
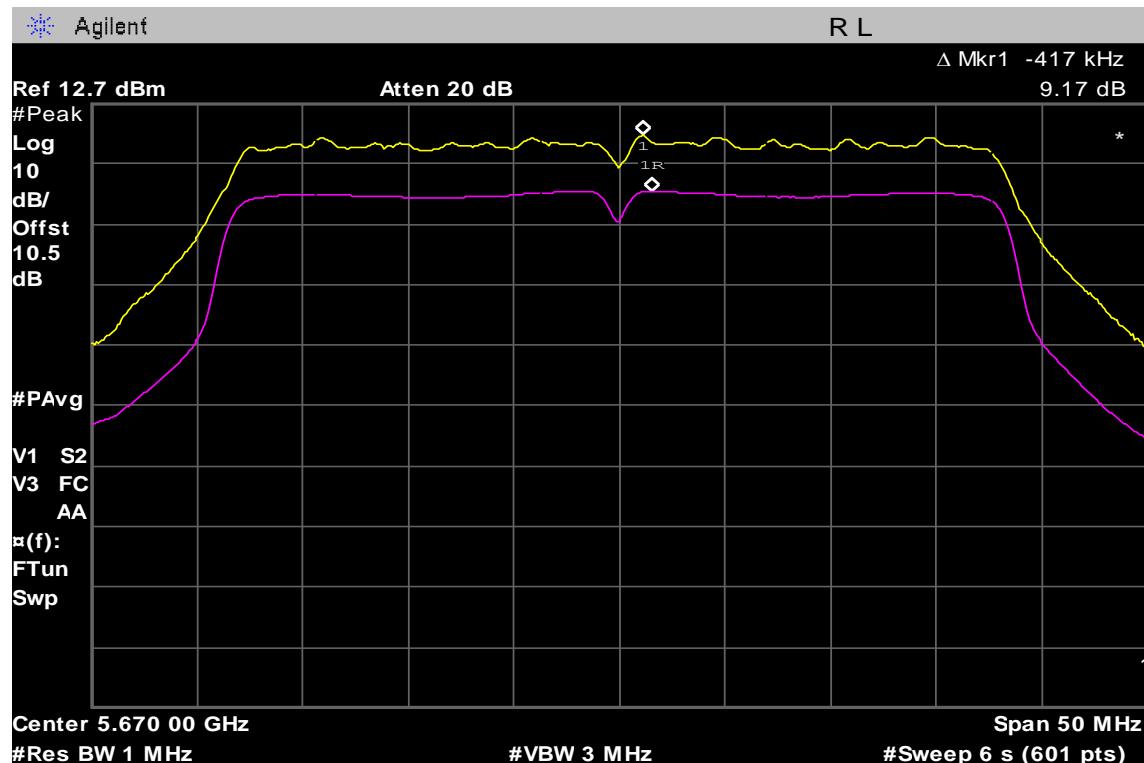
**CH High**

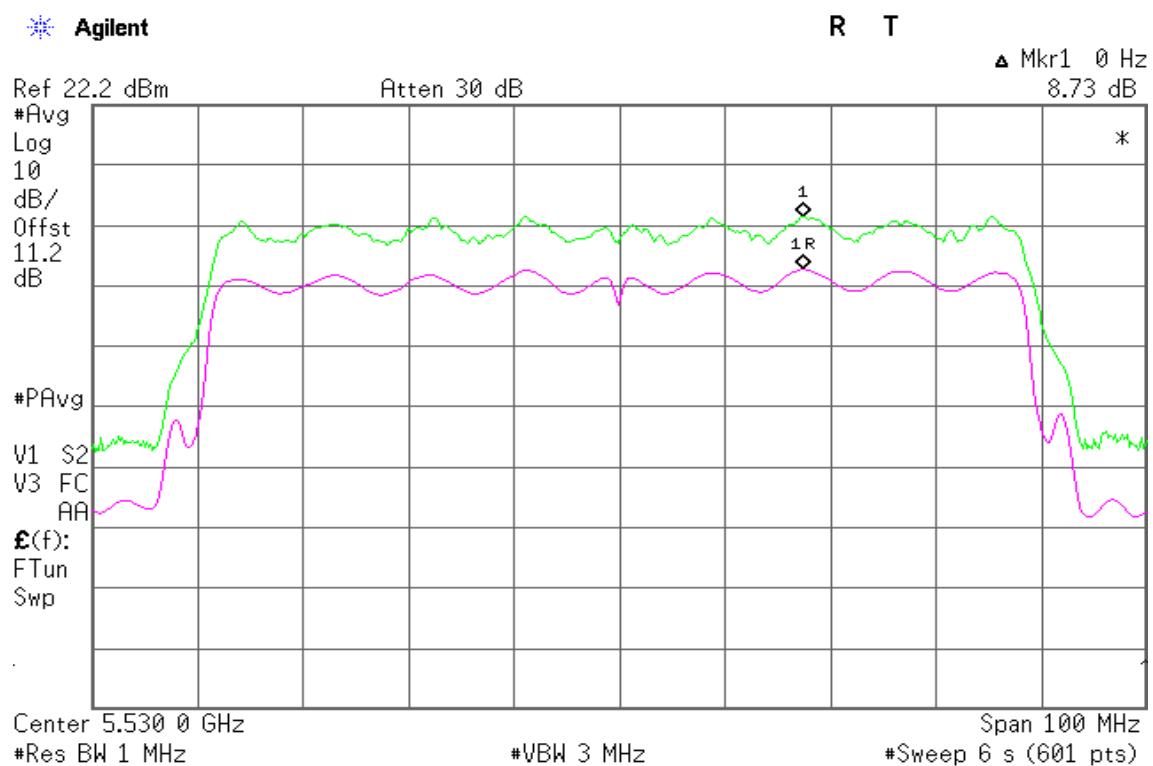
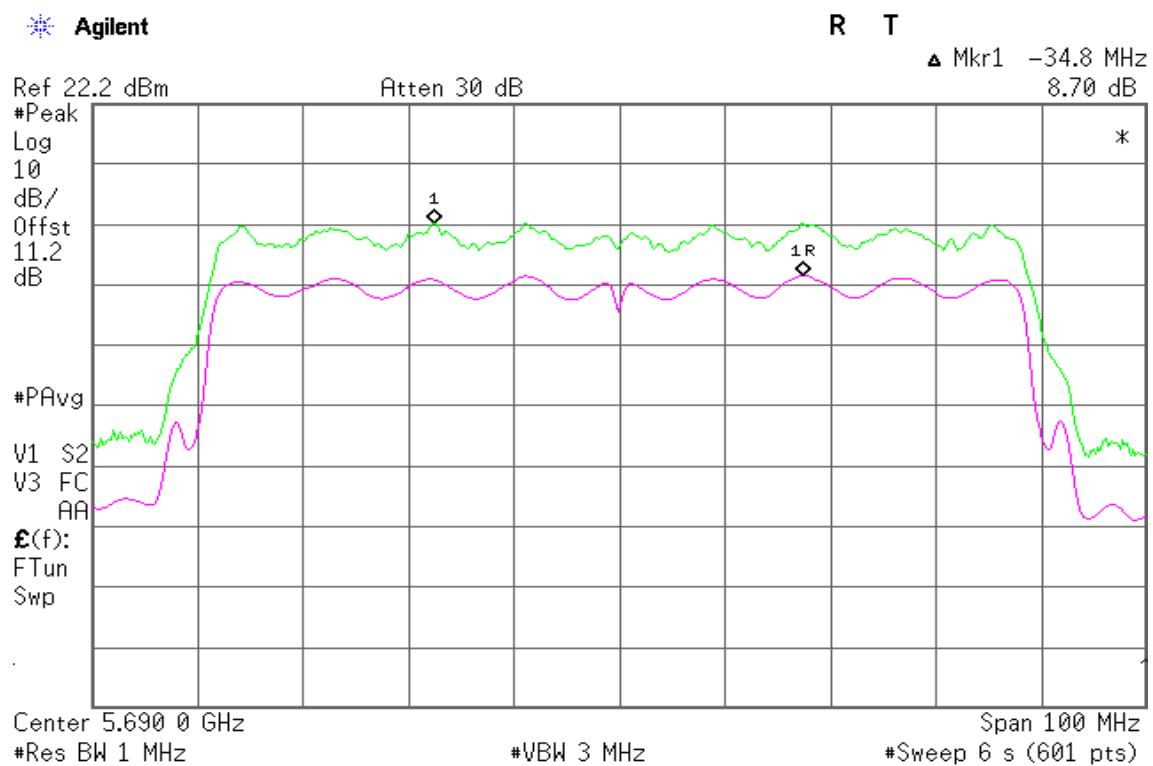
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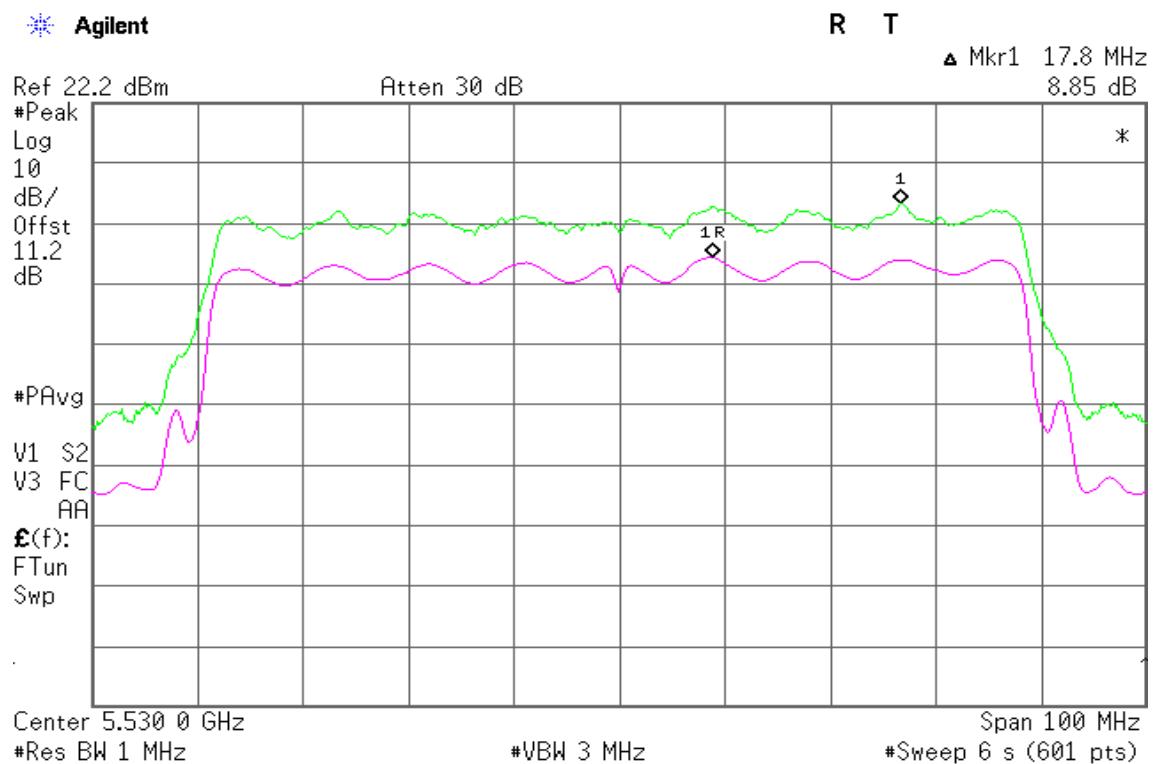
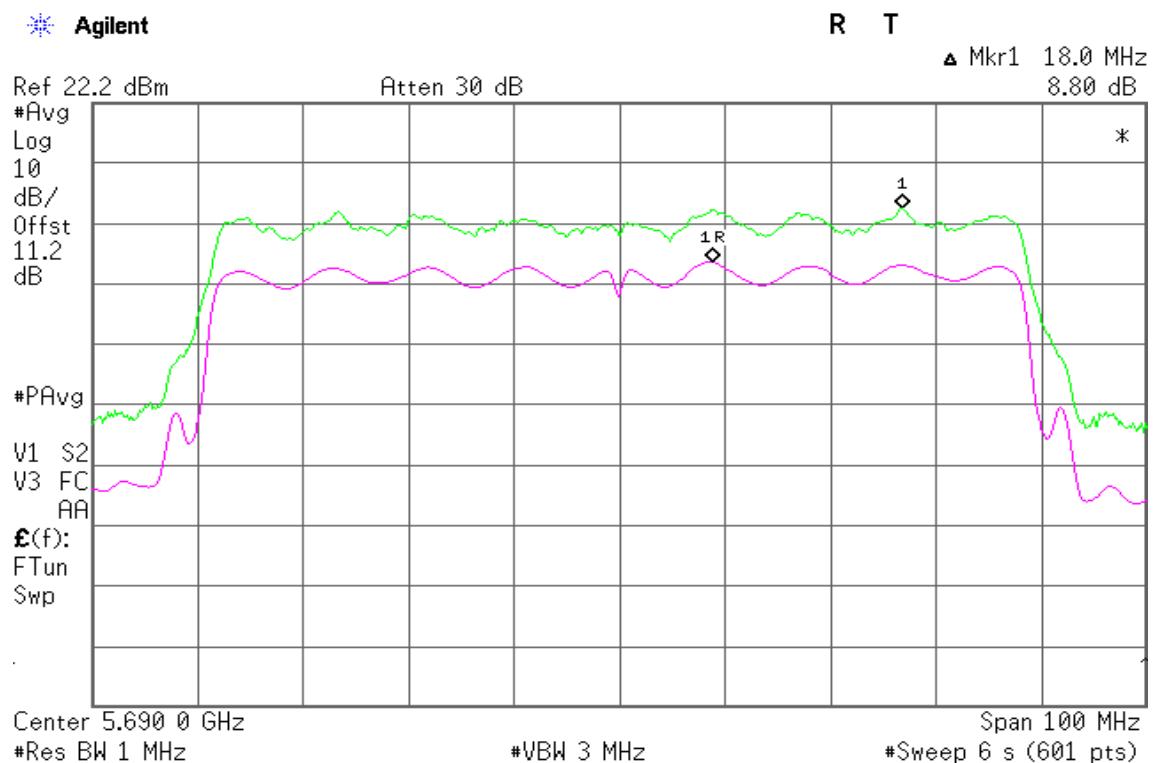


**IEEE 802.11n HT 40 MHz mode / 5510 ~ 5670MHz / Chain 0****CH Low****CH Mid**

**CH High****IEEE 802.11n HT 40 MHz mode / 5510 ~ 5670MHz / Chain 1****CH Low**

**CH Mid****CH High**

**IEEE 802.11n HT 80 MHz mode / 5530 ~ 5690MHz / Chain 0****CH Low****CH High**

**IEEE 802.11n HT 80 MHz mode / 5530 ~ 5690MHz / Chain 1****CH Low****CH High**



8.7 RADIATED UNDESIRABLE EMISSION

- According to §15.209(a) & RSS-210 §A9.3, except as provided elsewhere in this Subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field Strength (μ V/m)	Measurement Distance (m)
30-88	100*	3
88-216	150*	3
216-960	200*	3
Above 960	500	3

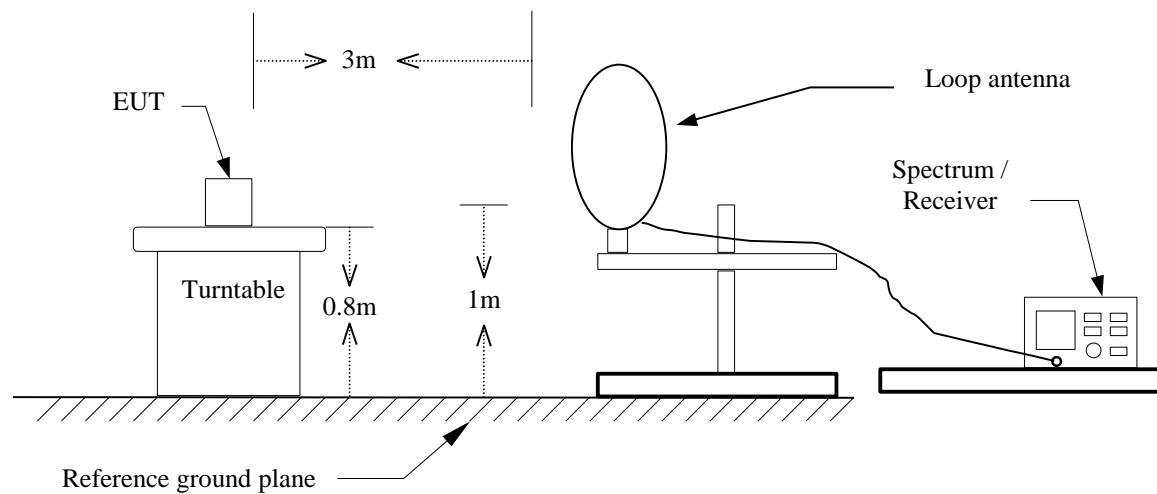
Remark: Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this Part, e.g., Sections 15.231 and 15.241.

- In the emission table above, the tighter limit applies at the band edges.

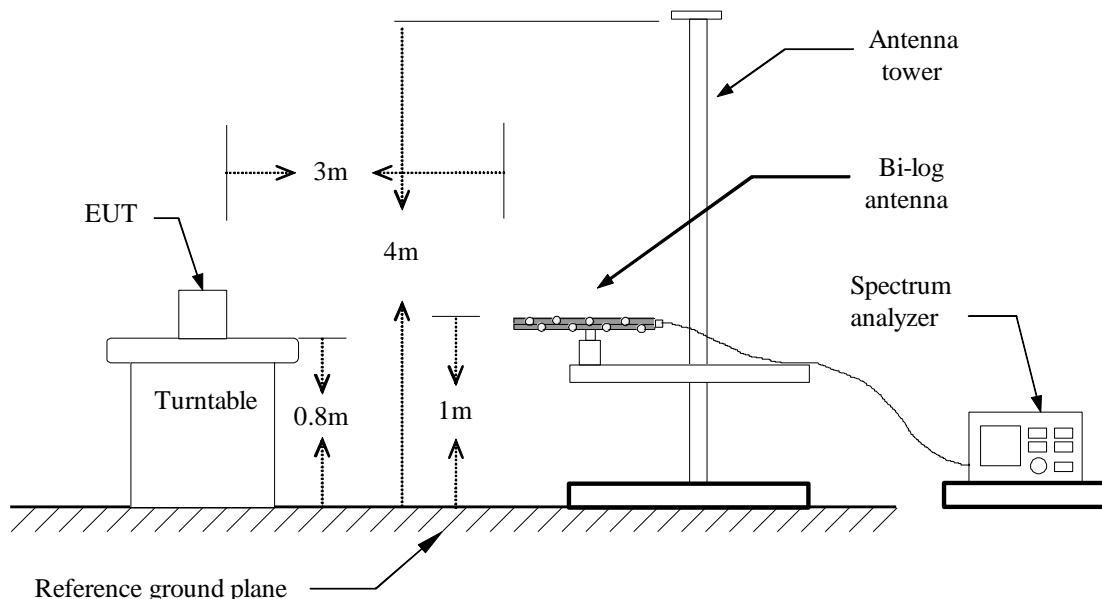
Frequency (MHz)	Field Strength (μ V/m at 3-meter)	Field Strength (dB μ V/m at 3-meter)
30-88	100	40
88-216	150	43.5
216-960	200	46
Above 960	500	54

Test Configuration

9kHz ~ 30MHz

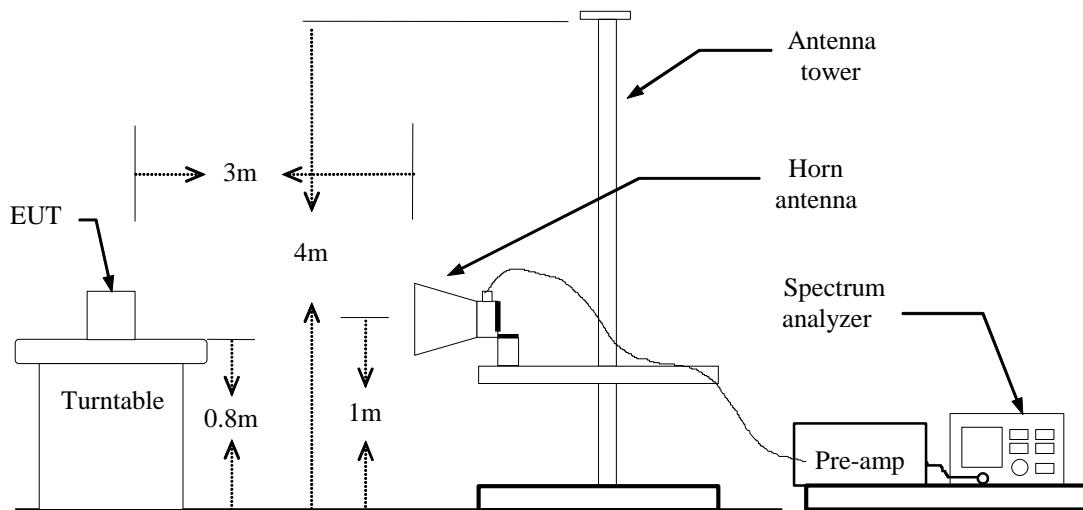


30MHz ~ 1GHz





Above 1 GHz





TEST PROCEDURE

1. The EUT is placed on a turntable, which is 0.8m above ground plane.
2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emissions.
4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
6. Set the spectrum analyzer in the following setting as:

Below 1GHz:

RBW=100kHz / VBW=300kHz / Sweep=AUTO

Above 1GHz:

(a) PEAK: RBW=VBW=1MHz / Sweep=AUTO

(b) AVERAGE: RBW=1MHz / VBW=300Hz / Sweep=AUTO

7. Repeat above procedures until the measurements for all frequencies are complete.

**Below 1 GHz****Operation Mode:** Normal Link**Test Date:** April 24, 2014**Temperature:** 27°C**Tested by:** David Shu**Humidity:** 53% RH**Polarity:** Ver. / Hor.

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Pol. (H/V)
30.9700	45.54	-10.58	34.96	40.00	-5.04	Peak	V
103.7200	51.76	-20.26	31.50	43.50	-12.00	Peak	V
216.2400	54.58	-18.72	35.86	46.00	-10.14	Peak	V
366.5900	43.62	-14.80	28.82	46.00	-17.18	Peak	V
499.4800	47.93	-11.84	36.09	46.00	-9.91	Peak	V
747.8000	42.88	-7.92	34.96	46.00	-11.04	Peak	V
57.1600	56.82	-23.64	33.18	40.00	-6.82	Peak	H
335.5500	51.36	-15.54	35.82	46.00	-10.18	Peak	H
531.4900	45.36	-11.31	34.05	46.00	-11.95	Peak	H
739.0700	47.10	-8.08	39.02	46.00	-6.98	Peak	H
804.0600	46.23	-7.33	38.90	46.00	-7.10	Peak	H
891.3600	44.61	-6.27	38.34	46.00	-7.66	Peak	H

Remark:

- 1 *Measuring frequencies from 30 MHz to the 1GHz.*
- 2 *Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using peak/quasi-peak detector mode.*
- 3 *Quasi-peak test would be performed if the peak result were greater than the quasi-peak limit or as required by the applicant.*
- 4 *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
- 5 *Margin (dB) = Remark result (dBuV/m) - Quasi-peak limit (dBuV/m).*

**Above 1 GHz**

Operation Mode: Tx / IEEE 802.11a mode / 5180 ~ 5240MHz / **Test Date:** April 22, 2014
CH Low

Temperature: 27°C

Tested by: David Shu

Humidity: 53% RH

Polarity: Ver. / Hor.

Frequency (MHz)	Reading (dBuV)	Correction (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Pol. (H/V)
2106.000	51.61	-4.77	46.84	74.00	-27.16	peak	V
N/A							
2393.000	50.86	-3.80	47.06	74.00	-26.94	peak	H
11810.000	35.99	15.32	51.31	74.00	-22.69	peak	H
N/A							

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.*
3. *Average test would be performed if the peak result were greater than the average limit.*
4. *Data of measurement within this frequency range shown “ --- ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
5. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with “ N/A ” remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
6. *Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).*



Operation Mode: Tx / IEEE 802.11a mode / 5180 ~ 5240MHz / **Test Date:** April 22, 2014
CH Mid

Temperature: 27°C **Tested by:** David Shu

Humidity: 53% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	Reading (dBuV)	Correction (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Pol. (H/V)
2708.000	51.10	-2.82	48.28	74.00	-25.72	peak	V
N/A							
2218.000	50.37	-4.55	45.82	74.00	-28.18	peak	H
N/A							

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit.
4. Data of measurement within this frequency range shown “ --- ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with “ N/A ” remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).



Operation Mode: Tx / IEEE 802.11a mode / 5180 ~ 5240MHz / CH High **Test Date:** April 22, 2014

Temperature: 27°C **Tested by:** David Shu

Humidity: 53% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	Reading (dBuV)	Correction (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Pol. (H/V)
2099.000	49.92	-4.78	45.14	74.00	-28.86	peak	V
N/A							
2477.000	50.01	-3.56	46.45	74.00	-27.55	peak	H
N/A							

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit.
4. Data of measurement within this frequency range shown “ --- ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with “ N/A ” remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).



Operation Mode: Tx / IEEE 802.11n HT 20 MHz Channel mode / 5180 ~ 5240MHz / CH Low

Test Date: April 22, 2014

Temperature: 27°C

Tested by: David Shu

Humidity: 53% RH

Polarity: Ver. / Hor.

Frequency (MHz)	Reading (dBuV)	Correction (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Pol. (H/V)
2540.000	51.60	-3.17	48.43	74.00	-25.57	peak	V
N/A							
2421.000	51.07	-3.67	47.40	74.00	-26.60	peak	H
N/A							

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit.
4. Data of measurement within this frequency range shown “ --- ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with “ N/A ” remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).



Operation Mode: Tx / IEEE 802.11n HT 20 MHz Channel mode / 5180 ~ 5240MHz / CH Mid

Test Date: April 22, 2014

Temperature: 27°C

Tested by: David Shu

Humidity: 53% RH

Polarity: Ver. / Hor.

Frequency (MHz)	Reading (dBuV)	Correction (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Pol. (H/V)
1931.000	50.66	-5.41	45.25	74.00	-28.75	peak	V
N/A							
2141.000	51.14	-4.70	46.44	74.00	-27.56	peak	H
N/A							

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit.
4. Data of measurement within this frequency range shown “ --- ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with “ N/A ” remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).



Operation Mode: Tx / IEEE 802.11n HT 20 MHz Channel mode / 5180 ~ 5240MHz / CH High **Test Date:** April 22, 2014

Temperature: 27°C **Tested by:** David Shu

Humidity: 53% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	Reading (dBuV)	Correction (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Pol. (H/V)
2463.000	51.10	-3.54	47.56	74.00	-26.44	peak	V
N/A							
2519.000	50.21	-3.21	47.00	74.00	-27.00	peak	H
N/A							

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit.
4. Data of measurement within this frequency range shown “ --- ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with “ N/A ” remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).



Operation Mode: Tx / IEEE 802.11n HT 40 MHz mode / 5190
~ 5230MHz / CH Low **Test Date:** April 22, 2014

Temperature: 27°C **Tested by:** David Shu

Humidity: 53% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	Reading (dBuV)	Correction (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Pol. (H/V)
2505.000	50.62	-3.24	47.38	74.00	-26.62	peak	V
N/A							
2099.000	50.81	-4.78	46.03	74.00	-27.97	peak	H
N/A							

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit.
4. Data of measurement within this frequency range shown “ --- ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with “ N/A ” remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).



Operation Mode: Tx / IEEE 802.11n HT 40 MHz mode / 5190 ~ 5230MHz / CH High **Test Date:** April 22, 2014
Temperature: 27°C **Tested by:** David Shu
Humidity: 53% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	Reading (dBuV)	Correction (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Pol. (H/V)
2330.000	49.80	-4.22	45.58	74.00	-28.42	peak	V
N/A							
2225.000	50.89	-4.54	46.35	74.00	-27.65	peak	H
N/A							

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit.
4. Data of measurement within this frequency range shown “ --- ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with “ N/A ” remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).



Operation Mode: Tx / IEEE 802.11n HT 80 MHz mode / 5210MHz / CH Mid

Test Date: April 22, 2014

Temperature: 27°C

Tested by: David Shu

Humidity: 53% RH

Polarity: Ver. / Hor.

Frequency (MHz)	Reading (dBuV)	Correction (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Pol. (H/V)
2085.000	51.54	-4.81	46.73	74.00	-27.27	peak	V
N/A							
2512.000	51.01	-3.23	47.78	74.00	-26.22	peak	H
N/A							

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit.
4. Data of measurement within this frequency range shown “ --- ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with “ N/A ” remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).



Operation Mode: Tx / IEEE 802.11a mode / 5260 ~ 5320MHz / **Test Date:** April 22, 2014
CH Low

Temperature: 27°C **Tested by:** David Shu

Humidity: 53% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	Reading (dBuV)	Correction (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Pol. (H/V)
2428.000	50.34	-3.64	46.70	74.00	-27.30	peak	V
N/A							
2463.000	50.63	-3.54	47.09	74.00	-26.91	peak	H
N/A							
							H

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit.
4. Data of measurement within this frequency range shown “ --- ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with “ N/A ” remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).



Operation Mode: Tx / IEEE 802.11a mode / 5260 ~ 5320MHz / **Test Date:** April 22, 2014
CH Mid

Temperature: 27°C **Tested by:** David Shu

Humidity: 53% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	Reading (dBuV)	Correction (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Pol. (H/V)
2491.000	50.03	-3.41	46.62	74.00	-27.38	peak	V
N/A							
2358.000	50.88	-4.12	46.76	74.00	-27.24	peak	H
N/A							

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit.
4. Data of measurement within this frequency range shown “ --- ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with “ N/A ” remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).



Operation Mode: Tx / IEEE 802.11a mode / 5260 ~ 5320MHz / CH High **Test Date:** April 22, 2014

Temperature: 27°C **Tested by:** David Shu

Humidity: 53% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	Reading (dBuV)	Correction (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Pol. (H/V)
2344.000	51.08	-4.23	46.85	74.00	-27.15	peak	V
N/A							
2057.000	51.17	-4.87	46.30	74.00	-27.70	peak	H
N/A							

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit.
4. Data of measurement within this frequency range shown “ --- ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with “ N/A ” remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).



Operation Mode: Tx / IEEE 802.11n HT 20 MHz Channel mode / 5260 ~ 5320MHz / CH Low

Test Date: April 23, 2014

Temperature: 27°C

Tested by: David Shu

Humidity: 53% RH

Polarity: Ver. / Hor.

Frequency (MHz)	Reading (dBuV)	Correction (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Pol. (H/V)
2687.000	50.56	-2.86	47.70	74.00	-26.30	peak	V
N/A							
2876.000	50.57	-2.47	48.10	74.00	-25.90	peak	H
N/A							

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit.
4. Data of measurement within this frequency range shown “ --- ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with “ N/A ” remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).



Operation Mode: Tx / IEEE 802.11n HT 20 MHz Channel mode / 5260 ~ 5320MHz / CH Mid

Test Date: April 23, 2014

Temperature: 27°C

Tested by: David Shu

Humidity: 53% RH

Polarity: Ver. / Hor.

Frequency (MHz)	Reading (dBuV)	Correction (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Pol. (H/V)
2736.000	50.61	-2.76	47.85	74.00	-26.15	peak	V
N/A							
3233.000	52.04	-1.46	50.58	74.00	-23.42	peak	H
N/A							

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit.
4. Data of measurement within this frequency range shown “ --- ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with “ N/A ” remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).



Operation Mode: Tx / IEEE 802.11n HT 20 MHz Channel mode / 5260 ~ 5320MHz / CH High **Test Date:** April 23, 2014

Temperature: 27°C **Tested by:** David Shu

Humidity: 53% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	Reading (dBuV)	Correction (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Pol. (H/V)
2547.000	50.83	-3.15	47.68	74.00	-26.32	peak	V
N/A							
2638.000	51.19	-2.96	48.23	74.00	-25.77	peak	H
N/A							

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit.
4. Data of measurement within this frequency range shown “ --- ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with “ N/A ” remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).



Operation Mode: Tx / IEEE 802.11n HT 40 MHz mode / 5270
~ 5310MHz / CH Low **Test Date:** April 23, 2014

Temperature: 27°C **Tested by:** David Shu

Humidity: 53% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	Reading (dBuV)	Correction (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Pol. (H/V)
2561.000	50.14	-3.12	47.02	74.00	-26.98	peak	V
N/A							
2554.000	50.17	-3.14	47.03	74.00	-26.97	peak	H
N/A							

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit.
4. Data of measurement within this frequency range shown “ --- ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with “ N/A ” remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).



Operation Mode: Tx / IEEE 802.11n HT 40 MHz mode / 5270 ~ 5310MHz / CH High **Test Date:** April 23, 2014
Temperature: 27°C **Tested by:** David Shu
Humidity: 53% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	Reading (dBuV)	Correction (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Pol. (H/V)
2785.000	50.45	-2.66	47.79	74.00	-26.21	peak	V
N/A							
2288.000	50.74	-4.46	46.28	74.00	-27.72	peak	H
N/A							

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit.
4. Data of measurement within this frequency range shown “ --- ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with “ N/A ” remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).



Operation Mode: Tx / IEEE 802.11n HT 80 MHz mode / 5290 MHz

Test Date: April 22, 2014

Temperature: 27°C

Tested by: David Shu

Humidity: 53% RH

Polarity: Ver. / Hor.

Frequency (MHz)	Reading (dBuV)	Correction (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Pol. (H/V)
2547.000	51.28	-3.15	48.13	74.00	-25.87	peak	V
N/A							
2757.000	50.95	-2.72	48.23	74.00	-25.77	peak	H
N/A							

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit.
4. Data of measurement within this frequency range shown “ --- ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with “ N/A ” remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).



Operation Mode: Tx / IEEE 802.11a mode / 5500 ~ 5700MHz / CH Low **Test Date:** April 23, 2014
Temperature: 27°C **Tested by:** David Shu
Humidity: 53% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	Reading (dBuV)	Correction (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Pol. (H/V)
2554.000	50.27	-3.14	47.13	74.00	-26.87	peak	V
N/A							
2561.000	50.55	-3.12	47.43	74.00	-26.57	peak	H
N/A							

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. Data of measurement within this frequency range shown “ --- ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with “ N/A ” remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).



Operation Mode: Tx / IEEE 802.11a mode / 5500 ~ 5700MHz /CH Mid **Test Date:** April 23, 2014

Temperature: 27°C **Tested by:** David Shu

Humidity: 53% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	Reading (dBuV)	Correction (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Pol. (H/V)
2561.000	50.50	-3.12	47.38	74.00	-26.62	peak	V
N/A							
2512.000	50.23	-3.23	47.00	74.00	-27.00	peak	H
N/A							

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. Data of measurement within this frequency range shown “ --- ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with “ N/A ” remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).



Operation Mode: Tx / IEEE 802.11a mode / 5500 ~ 5700MHz / **Test Date:** April 23, 2014
CH High

Temperature: 27°C **Tested by:** David Shu

Humidity: 53% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	Reading (dBuV)	Correction (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Pol. (H/V)
2554.000	50.04	-3.14	46.90	74.00	-27.10	peak	V
N/A							
2540.000	50.38	-3.17	47.21	74.00	-26.79	peak	H
N/A							

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. Data of measurement within this frequency range shown “ --- ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with “ N/A ” remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).



Operation Mode: Tx / IEEE 802.11n HT 20 MHz Channel mode / 5500 ~ 5700MHz / CH Low

Test Date: April 23, 2014

Temperature: 27°C

Tested by: David Shu

Humidity: 53% RH

Polarity: Ver. / Hor.

Frequency (MHz)	Reading (dBuV)	Correction (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Pol. (H/V)
2666.000	50.39	-2.90	47.49	74.00	-26.51	peak	V
N/A							
2890.000	51.31	-2.44	48.87	74.00	-25.13	peak	H
N/A							

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. Data of measurement within this frequency range shown “ --- ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with “ N/A ” remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).



Operation Mode: Tx / IEEE 802.11n HT 20 MHz Channel mode / 5500 ~ 5700MHz / CH Mid

Test Date: April 23, 2014

Temperature: 27°C

Tested by: David Shu

Humidity: 53% RH

Polarity: Ver. / Hor.

Frequency (MHz)	Reading (dBuV)	Correction (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Pol. (H/V)
2337.000	50.60	-4.23	46.37	74.00	-27.63	peak	V
N/A							
2456.000	49.79	-3.54	46.25	74.00	-27.75	peak	H
N/A							

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. Data of measurement within this frequency range shown “ --- ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with “ N/A ” remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).



Operation Mode: Tx / IEEE 802.11n HT 20 MHz Channel mode / 5500 ~ 5700MHz / CH High

Test Date: April 23, 2014

Temperature: 27°C

Tested by: David Shu

Humidity: 53% RH

Polarity: Ver. / Hor.

Frequency (MHz)	Reading (dBuV)	Correction (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Pol. (H/V)
2288.000	51.69	-4.46	47.23	74.00	-26.77	peak	V
N/A							
3198.000	51.85	-1.57	50.28	74.00	-23.72	peak	H
N/A							

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. Data of measurement within this frequency range shown “ --- ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with “ N/A ” remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).



Operation Mode: Tx / IEEE 802.11n HT 40 MHz mode / 5510
~ 5670MHz / CH Low **Test Date:** April 23, 2014

Temperature: 27°C **Tested by:** David Shu

Humidity: 53% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	Reading (dBuV)	Correction (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Pol. (H/V)
2785.000	50.45	-2.66	47.79	74.00	-26.21	peak	V
N/A							
2288.000	50.74	-4.46	46.28	74.00	-27.72	peak	H
N/A							

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. Data of measurement within this frequency range shown “ --- ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with “ N/A ” remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).



Operation Mode: Tx / IEEE 802.11n HT 40 MHz mode / 5510
~ 5670MHz / CH Mid **Test Date:** April 23, 2014

Temperature: 27°C **Tested by:** David Shu

Humidity: 53% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	Reading (dBuV)	Correction (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Pol. (H/V)
2393.000	50.80	-3.80	47.00	74.00	-27.00	peak	V
N/A							
2533.000	49.85	-3.18	46.67	74.00	-27.33	peak	H
N/A							

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. Data of measurement within this frequency range shown “ --- ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with “ N/A ” remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).



Operation Mode: Tx / IEEE 802.11n HT 40 MHz mode / 5510
~ 5670MHz / CH High **Test Date:** April 23, 2014

Temperature: 27°C **Tested by:** David Shu

Humidity: 53% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	Reading (dBuV)	Correction (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Pol. (H/V)
2526.000	50.18	-3.20	46.98	74.00	-27.02	peak	V
N/A							
2288.000	51.20	-4.46	46.74	74.00	-27.26	peak	H
N/A							

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. Data of measurement within this frequency range shown “ --- ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with “ N/A ” remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).



Operation Mode: Tx / IEEE 802.11n HT 80 MHz mode / 5530
~ 5690MHz / CH Low **Test Date:** April 23, 2014

Temperature: 27°C **Tested by:** David Shu

Humidity: 53% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	Reading (dBuV)	Correction (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Pol. (H/V)
2680.000	50.16	-2.88	47.28	74.00	-26.72	peak	V
N/A							
2505.000	50.89	-3.24	47.65	74.00	-26.35	peak	H
N/A							

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. Data of measurement within this frequency range shown “ --- ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with “ N/A ” remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).



Operation Mode: Tx / IEEE 802.11n HT 80 MHz mode / 5530
~ 5690MHz / CH High **Test Date:** April 23, 2014

Temperature: 27°C **Tested by:** David Shu

Humidity: 53% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	Reading (dBuV)	Correction (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Pol. (H/V)
2533.000	51.50	-3.18	48.32	74.00	-25.68	peak	V
N/A							
2561.000	50.06	-3.12	46.94	74.00	-27.06	peak	H
N/A							

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. Data of measurement within this frequency range shown “ --- ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with “ N/A ” remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).



8.8 POWERLINE CONDUCTED EMISSIONS

LIMIT

According to §15.207(a) & RSS-Gen §7.2.4, except as shown in paragraphs (b) and (c) of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table, as measured using a 50 μ H/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the boundary between the frequency ranges.

Frequency Range (MHz)	Limits (dBμV)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56*	56 to 46*
0.50 to 5	56	46
5 to 30	60	50

* Decreases with the logarithm of the frequency.

Test Configuration

See test photographs attached in Appendix II for the actual connections between EUT and support equipment.

TEST PROCEDURE

1. The EUT was placed on a table, which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. Repeat above procedures until all frequency measured were complete.



TEST RESULTS

The initial step in collecting conducted data is a spectrum analyzer peak scan of the measurement range. Significant peaks are then marked as shown on the following data page, and these signals are then quasi-peaked.

Test Data

Operation Mode: Normal Link **Test Date:** May 9, 2014
Temperature: 26°C **Tested by:** Sehni Hu
Humidity: 60% RH

Freq. (MHz)	QP Reading (dBuV)	AV Reading (dBuV)	Corr. factor (dB)	QP Result (dBuV)	AV Result (dBuV)	QP Limit (dBuV)	AV Limit (dBuV)	QP Margin (dB)	AV Margin (dB)	Note
0.1700	44.71	21.12	0.19	44.90	21.31	64.96	54.96	-20.06	-33.65	L1
0.3060	39.17	30.91	0.20	39.37	31.11	60.08	50.08	-20.71	-18.97	L1
0.5940	29.67	20.62	0.20	29.87	20.82	56.00	46.00	-26.13	-25.18	L1
2.6540	22.87	12.44	0.16	23.03	12.60	56.00	46.00	-32.97	-33.40	L1
3.7660	18.75	10.06	0.19	18.94	10.25	56.00	46.00	-37.06	-35.75	L1
13.7780	19.99	13.35	0.68	20.67	14.03	60.00	50.00	-39.33	-35.97	L1
0.1580	44.13	38.40	0.19	44.32	38.59	65.57	55.57	-21.25	-16.98	L2
0.1980	42.19	35.85	0.19	42.38	36.04	63.69	53.69	-21.31	-17.65	L2
0.2860	43.67	33.09	0.19	43.86	33.28	60.64	50.64	-16.78	-17.36	L2
0.3780	37.96	27.12	0.19	38.15	27.31	58.32	48.32	-20.17	-21.01	L2
0.4940	34.21	23.06	0.19	34.40	23.25	56.10	46.10	-21.70	-22.85	L2
13.9060	23.00	15.79	0.53	23.53	16.32	60.00	50.00	-36.47	-33.68	L2

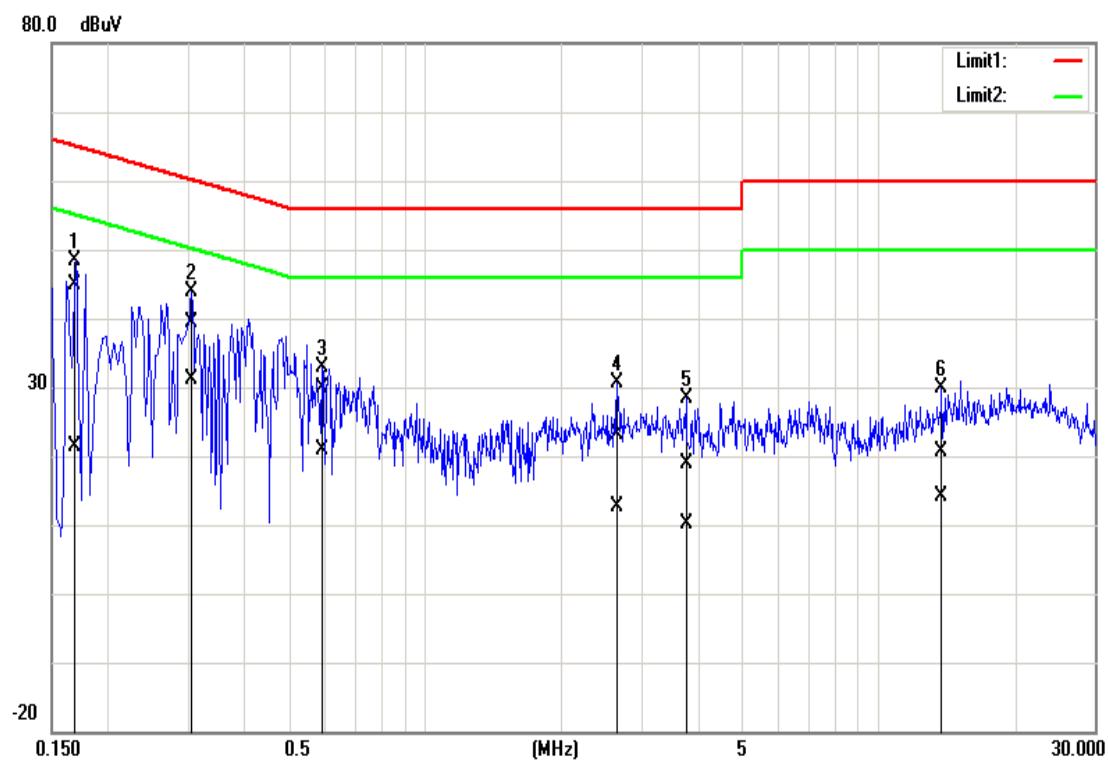
Remark:

1. Measuring frequencies from 0.15 MHz to 30MHz.
2. The emissions measured in frequency range from 0.15 MHz to 30MHz were made with an instrument using Quasi-peak detector and average detector.
3. The IF bandwidth of SPA between 0.15MHz to 30MHz was 10kHz; the IF bandwidth of Test Receiver between 0.15MHz to 30MHz was 9kHz;
4. L1 = Line One (Live Line) / L2 = Line Two (Neutral Line)

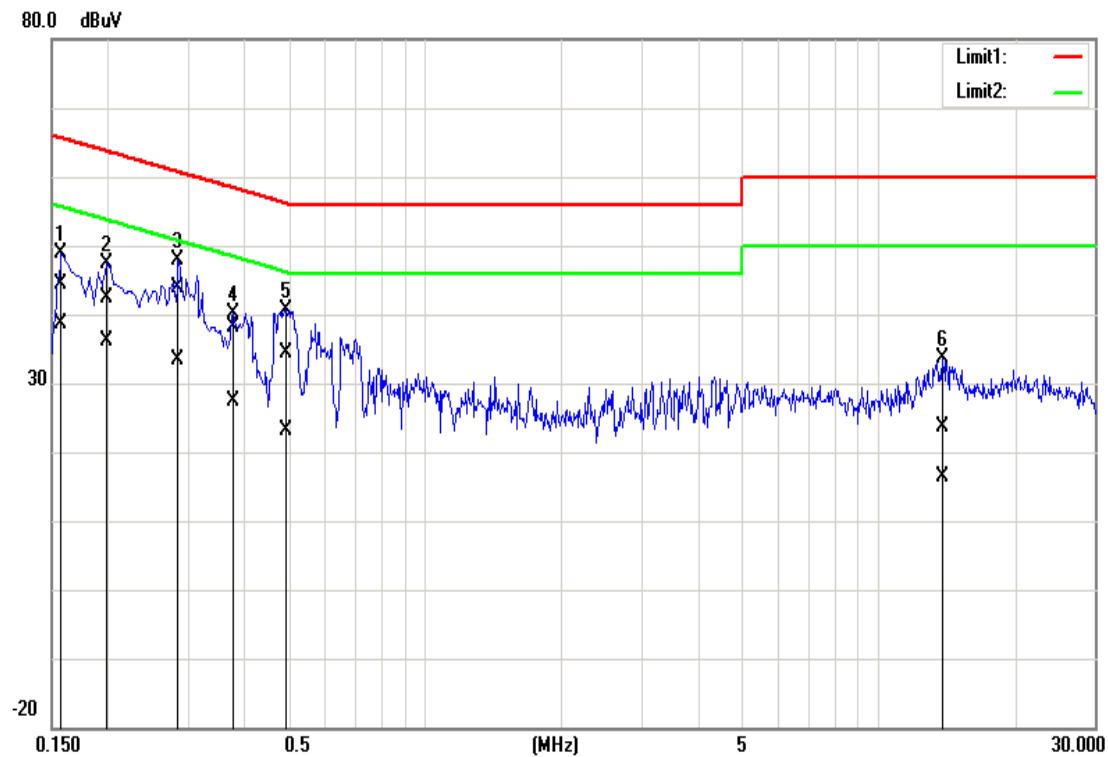


Test Plots

Conducted emissions (Line 1)



Conducted emissions (Line 2)



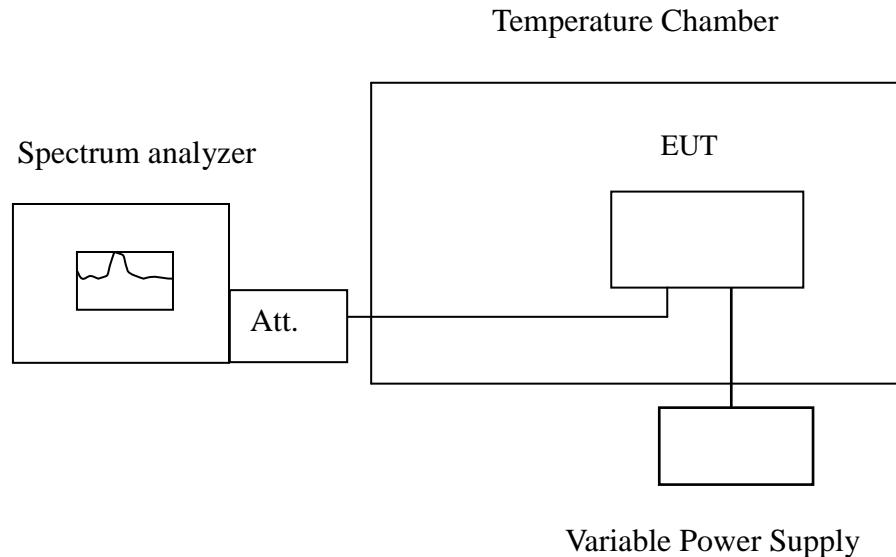


8.9 FREQUENCY STABILITY

LIMIT

According to §15.407(g) & RSS-210 §A9.5(5), manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the operational description.

Test Configuration



Remark: Measurement setup for testing on Antenna connector



TEST PROCEDURE

The equipment under test was connected to an external AC or DC power supply and input rated voltage. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. The EUT was placed inside the temperature chamber. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 20°C operating frequency as reference frequency. Turn EUT off and set the chamber temperature to -20°C. After the temperature stabilized for approximately 30 minutes recorded the frequency. Repeat step measure with 10°C increased per stage until the highest temperature of +50°C reached.

TEST RESULTS

No non-compliance noted.

IEEE 802.11a mode / 5180 ~ 5240 MHz:

CH Low

Operating Frequency: 5180 MHz				
Environment Temperature (°C)	Voltage (V)	Measured Frequency (MHz)	Limit Range	Test Result
50	5	5180.000034	5150~5250	Pass
40	5	5179.974846	5150~5250	Pass
30	5	5179.990438	5150~5250	Pass
20	5	5180.018902	5150~5250	Pass
10	5	5180.019064	5150~5250	Pass
0	5	5179.995287	5150~5250	Pass
-10	5	5180.010633	5150~5250	Pass
-20	5	5180.000974	5150~5250	Pass

Operating Frequency: 5180 MHz				
Environment Temperature (°C)	Voltage (V)	Measured Frequency (MHz)	Limit Range	Test Result
20	4.5	5179.984822	5150~5250	Pass
	5	5179.989464	5150~5250	Pass
	5.5	5179.976188	5150~5250	Pass

**CH Mid**

Operating Frequency: 5220 MHz				
Environment Temperature (°C)	Voltage (V)	Measured Frequency (MHz)	Limit Range	Test Result
50	5	5219.992523	5150~5250	Pass
40	5	5220.008623	5150~5250	Pass
30	5	5219.973068	5150~5250	Pass
20	5	5219.994994	5150~5250	Pass
10	5	5219.985388	5150~5250	Pass
0	5	5219.981040	5150~5250	Pass
-10	5	5219.975300	5150~5250	Pass
-20	5	5220.014781	5150~5250	Pass

Operating Frequency: 5220 MHz				
Environment Temperature (°C)	Voltage (V)	Measured Frequency (MHz)	Limit Range	Test Result
20	4.5	5219.9774	5150~5250	Pass
	5	5219.97825	5150~5250	Pass
	5.5	5220.003631	5150~5250	Pass

**CH High**

Operating Frequency: 5240 MHz				
Environment Temperature (°C)	Voltage (V)	Measured Frequency (MHz)	Limit Range	Test Result
50	5	5239.983695	5150~5250	Pass
40	5	5240.014020	5150~5250	Pass
30	5	5240.016887	5150~5250	Pass
20	5	5240.016641	5150~5250	Pass
10	5	5240.005359	5150~5250	Pass
0	5	5239.996837	5150~5250	Pass
-10	5	5240.019705	5150~5250	Pass
-20	5	5239.994159	5150~5250	Pass

Operating Frequency: 5240 MHz				
Environment Temperature (°C)	Voltage (V)	Measured Frequency (MHz)	Limit Range	Test Result
20	4.5	5239.997102	5150~5250	Pass
	5	5239.996126	5150~5250	Pass
	5.5	5240.011727	5150~5250	Pass

**IEEE 802.11n HT 20 MHz Channel mode / 5180 ~ 5240 MHz / Chain 0****CH Low**

Operating Frequency: 5180 MHz				
Environment Temperature (°C)	Voltage (V)	Measured Frequency (MHz)	Limit Range	Test Result
50	5	5179.970267	5150~5250	Pass
40	5	5179.993771	5150~5250	Pass
30	5	5179.995119	5150~5250	Pass
20	5	5179.984285	5150~5250	Pass
10	5	5180.018128	5150~5250	Pass
0	5	5179.998962	5150~5250	Pass
-10	5	5179.996341	5150~5250	Pass
-20	5	5180.002102	5150~5250	Pass

Operating Frequency: 5180 MHz				
Environment Temperature (°C)	Voltage (V)	Measured Frequency (MHz)	Limit Range	Test Result
20	4.5	5179.982316	5150~5250	Pass
	5	5179.997662	5150~5250	Pass
	5.5	5179.97369	5150~5250	Pass

**CH Mid**

Operating Frequency: 5220 MHz				
Environment Temperature (°C)	Voltage (V)	Measured Frequency (MHz)	Limit Range	Test Result
50	5	5219.987384	5150~5250	Pass
40	5	5220.011557	5150~5250	Pass
30	5	5219.970621	5150~5250	Pass
20	5	5220.004547	5150~5250	Pass
10	5	5219.995564	5150~5250	Pass
0	5	5220.001191	5150~5250	Pass
-10	5	5219.977746	5150~5250	Pass
-20	5	5219.994710	5150~5250	Pass

Operating Frequency: 5220 MHz				
Environment Temperature (°C)	Voltage (V)	Measured Frequency (MHz)	Limit Range	Test Result
20	4.5	5220.020436	5150~5250	Pass
	5	5219.983519	5150~5250	Pass
	5.5	5219.989217	5150~5250	Pass

**CH High**

Operating Frequency: 5240 MHz				
Environment Temperature (°C)	Voltage (V)	Measured Frequency (MHz)	Limit Range	Test Result
50	5	5240.016364	5150~5250	Pass
40	5	5239.972247	5150~5250	Pass
30	5	5239.974518	5150~5250	Pass
20	5	5239.974852	5150~5250	Pass
10	5	5240.017877	5150~5250	Pass
0	5	5239.990601	5150~5250	Pass
-10	5	5239.995479	5150~5250	Pass
-20	5	5239.979684	5150~5250	Pass

Operating Frequency: 5240 MHz				
Environment Temperature (°C)	Voltage (V)	Measured Frequency (MHz)	Limit Range	Test Result
20	4.5	5239.973729	5150~5250	Pass
	5	5240.016178	5150~5250	Pass
	5.5	5239.997954	5150~5250	Pass

**IEEE 802.11n HT 20 MHz Channel mode / 5180 ~ 5240 MHz / Chain 1****CH Low**

Operating Frequency: 5180 MHz				
Environment Temperature (°C)	Voltage (V)	Measured Frequency (MHz)	Limit Range	Test Result
50	5	5179.999953	5150~5250	Pass
40	5	5180.019285	5150~5250	Pass
30	5	5180.016698	5150~5250	Pass
20	5	5179.984931	5150~5250	Pass
10	5	5180.006065	5150~5250	Pass
0	5	5180.006436	5150~5250	Pass
-10	5	5179.984655	5150~5250	Pass
-20	5	5179.994415	5150~5250	Pass

Operating Frequency: 5180 MHz				
Environment Temperature (°C)	Voltage (V)	Measured Frequency (MHz)	Limit Range	Test Result
20	4.5	5180.000589	5150~5250	Pass
	5	5179.979778	5150~5250	Pass
	5.5	5180.008459	5150~5250	Pass

**CH Mid**

Operating Frequency: 5220 MHz				
Environment Temperature (°C)	Voltage (V)	Measured Frequency (MHz)	Limit Range	Test Result
50	5	5219.985651	5150~5250	Pass
40	5	5220.020480	5150~5250	Pass
30	5	5219.995650	5150~5250	Pass
20	5	5219.980524	5150~5250	Pass
10	5	5219.981386	5150~5250	Pass
0	5	5219.994878	5150~5250	Pass
-10	5	5219.992410	5150~5250	Pass
-20	5	5219.977287	5150~5250	Pass

Operating Frequency: 5220 MHz				
Environment Temperature (°C)	Voltage (V)	Measured Frequency (MHz)	Limit Range	Test Result
20	4.5	5220.002961	5150~5250	Pass
	5	5219.977734	5150~5250	Pass
	5.5	5219.979165	5150~5250	Pass

**CH High**

Operating Frequency: 5240 MHz				
Environment Temperature (°C)	Voltage (V)	Measured Frequency (MHz)	Limit Range	Test Result
50	5	5239.974918	5150~5250	Pass
40	5	5240.020640	5150~5250	Pass
30	5	5240.014573	5150~5250	Pass
20	5	5239.987092	5150~5250	Pass
10	5	5239.983233	5150~5250	Pass
0	5	5239.973866	5150~5250	Pass
-10	5	5239.975189	5150~5250	Pass
-20	5	5240.005207	5150~5250	Pass

Operating Frequency: 5240 MHz				
Environment Temperature (°C)	Voltage (V)	Measured Frequency (MHz)	Limit Range	Test Result
20	4.5	5239.975648	5150~5250	Pass
	5	5239.985787	5150~5250	Pass
	5.5	5240.014811	5150~5250	Pass

**IEEE 802.11n HT 40 MHz mode / 5190 ~ 5230 MHz / Chain 0****CH Low**

Operating Frequency: 5190 MHz				
Environment Temperature (°C)	Voltage (V)	Measured Frequency (MHz)	Limit Range	Test Result
50	5	5189.975398	5150~5250	Pass
40	5	5189.977611	5150~5250	Pass
30	5	5189.973946	5150~5250	Pass
20	5	5190.001890	5150~5250	Pass
10	5	5189.984988	5150~5250	Pass
0	5	5189.982995	5150~5250	Pass
-10	5	5189.975318	5150~5250	Pass
-20	5	5189.982913	5150~5250	Pass

Operating Frequency: 5190 MHz				
Environment Temperature (°C)	Voltage (V)	Measured Frequency (MHz)	Limit Range	Test Result
20	4.5	5190.015701	5150~5250	Pass
	5	5189.9749	5150~5250	Pass
	5.5	5189.998365	5150~5250	Pass

**CH High**

Operating Frequency: 5230 MHz				
Environment Temperature (°C)	Voltage (V)	Measured Frequency (MHz)	Limit Range	Test Result
50	5	5229.987534	5150~5250	Pass
40	5	5230.012419	5150~5250	Pass
30	5	5229.983696	5150~5250	Pass
20	5	5229.996800	5150~5250	Pass
10	5	5230.017433	5150~5250	Pass
0	5	5229.978664	5150~5250	Pass
-10	5	5229.990674	5150~5250	Pass
-20	5	5229.975946	5150~5250	Pass

Operating Frequency: 5230 MHz				
Environment Temperature (°C)	Voltage (V)	Measured Frequency (MHz)	Limit Range	Test Result
20	4.5	5229.992242	5150~5250	Pass
	5	5229.99982	5150~5250	Pass
	5.5	5230.014116	5150~5250	Pass

**IEEE 802.11n HT 40 MHz mode / 5190 ~ 5230 MHz / Chain 1****CH Low**

Operating Frequency: 5190 MHz				
Environment Temperature (°C)	Voltage (V)	Measured Frequency (MHz)	Limit Range	Test Result
50	5	5189.996648	5150~5250	Pass
40	5	5189.995902	5150~5250	Pass
30	5	5189.987155	5150~5250	Pass
20	5	5190.000949	5150~5250	Pass
10	5	5190.018471	5150~5250	Pass
0	5	5189.982535	5150~5250	Pass
-10	5	5189.970264	5150~5250	Pass
-20	5	5189.983551	5150~5250	Pass

Operating Frequency: 5190 MHz				
Environment Temperature (°C)	Voltage (V)	Measured Frequency (MHz)	Limit Range	Test Result
20	4.5	5189.998215	5150~5250	Pass
	5	5189.977354	5150~5250	Pass
	5.5	5189.978411	5150~5250	Pass

**CH High**

Operating Frequency: 5230 MHz				
Environment Temperature (°C)	Voltage (V)	Measured Frequency (MHz)	Limit Range	Test Result
50	5	5229.979863	5150~5250	Pass
40	5	5230.005247	5150~5250	Pass
30	5	5229.996466	5150~5250	Pass
20	5	5230.020163	5150~5250	Pass
10	5	5229.972247	5150~5250	Pass
0	5	5229.998562	5150~5250	Pass
-10	5	5230.000989	5150~5250	Pass
-20	5	5229.999776	5150~5250	Pass

Operating Frequency: 5230 MHz				
Environment Temperature (°C)	Voltage (V)	Measured Frequency (MHz)	Limit Range	Test Result
20	4.5	5230.018612	5150~5250	Pass
	5	5229.990304	5150~5250	Pass
	5.5	5229.990938	5150~5250	Pass

**IEEE 802.11n HT 80 MHz mode / 5210 MHz / Chain 0**

Operating Frequency: 5210 MHz				
Environment Temperature (°C)	Voltage (V)	Measured Frequency (MHz)	Limit Range	Test Result
50	5	5209.990853	5150~5250	Pass
40	5	5209.995236	5150~5250	Pass
30	5	5209.984506	5150~5250	Pass
20	5	5209.982582	5150~5250	Pass
10	5	5209.985598	5150~5250	Pass
0	5	5210.000408	5150~5250	Pass
-10	5	5210.005454	5150~5250	Pass
-20	5	5210.005410	5150~5250	Pass

Operating Frequency: 5210 MHz				
Environment Temperature (°C)	Voltage (V)	Measured Frequency (MHz)	Limit Range	Test Result
20	4.5	5210.01023	5150~5250	Pass
	5	5209.997694	5150~5250	Pass
	5.5	5209.973301	5150~5250	Pass

**IEEE 802.11n HT 80 MHz mode / 5210 MHz / Chain 1**

Operating Frequency: 5210 MHz				
Environment Temperature (°C)	Voltage (V)	Measured Frequency (MHz)	Limit Range	Test Result
50	5	5209.997260	5150~5250	Pass
40	5	5209.993610	5150~5250	Pass
30	5	5209.999359	5150~5250	Pass
20	5	5210.013122	5150~5250	Pass
10	5	5209.971915	5150~5250	Pass
0	5	5209.976266	5150~5250	Pass
-10	5	5210.013717	5150~5250	Pass
-20	5	5210.009881	5150~5250	Pass

Operating Frequency: 5210 MHz				
Environment Temperature (°C)	Voltage (V)	Measured Frequency (MHz)	Limit Range	Test Result
20	4.5	5209.995023	5150~5250	Pass
	5	5209.973592	5150~5250	Pass
	5.5	5210.016569	5150~5250	Pass

**IEEE 802.11a mode / 5260 ~ 5320 MHz:****CH Low**

Operating Frequency: 5260 MHz				
Environment Temperature (°C)	Voltage (V)	Measured Frequency (MHz)	Limit Range	Test Result
50	5	5260.006509	5250~5350	Pass
40	5	5259.991950	5250~5350	Pass
30	5	5260.009724	5250~5350	Pass
20	5	5260.016470	5250~5350	Pass
10	5	5259.985011	5250~5350	Pass
0	5	5260.003966	5250~5350	Pass
-10	5	5259.990639	5250~5350	Pass
-20	5	5259.977830	5250~5350	Pass

Operating Frequency: 5260 MHz				
Environment Temperature (°C)	Voltage (V)	Measured Frequency (MHz)	Limit Range	Test Result
20	4.5	5260.006705	5250~5350	Pass
	5	5259.984434	5250~5350	Pass
	5.5	5259.985485	5250~5350	Pass

**CH Mid**

Operating Frequency: 5280 MHz				
Environment Temperature (°C)	Voltage (V)	Measured Frequency (MHz)	Limit Range	Test Result
50	5	5279.996884	5250~5350	Pass
40	5	5279.996060	5250~5350	Pass
30	5	5280.007243	5250~5350	Pass
20	5	5279.987569	5250~5350	Pass
10	5	5279.981688	5250~5350	Pass
0	5	5279.988618	5250~5350	Pass
-10	5	5280.010815	5250~5350	Pass
-20	5	5280.010692	5250~5350	Pass

Operating Frequency: 5280 MHz				
Environment Temperature (°C)	Voltage (V)	Measured Frequency (MHz)	Limit Range	Test Result
20	4.5	5279.979464	5250~5350	Pass
	5	5280.012946	5250~5350	Pass
	5.5	5280.017029	5250~5350	Pass

**CH High**

Operating Frequency: 5320 MHz				
Environment Temperature (°C)	Voltage (V)	Measured Frequency (MHz)	Limit Range	Test Result
50	5	5320.013372	5250~5350	Pass
40	5	5319.974865	5250~5350	Pass
30	5	5320.008470	5250~5350	Pass
20	5	5320.008637	5250~5350	Pass
10	5	5319.989599	5250~5350	Pass
0	5	5320.015356	5250~5350	Pass
-10	5	5319.974108	5250~5350	Pass
-20	5	5319.970850	5250~5350	Pass

Operating Frequency: 5320 MHz				
Environment Temperature (°C)	Voltage (V)	Measured Frequency (MHz)	Limit Range	Test Result
20	4.5	5320.011025	5250~5350	Pass
	5	5320.006425	5250~5350	Pass
	5.5	5319.990085	5250~5350	Pass

**IEEE 802.11n HT 20 MHz Channel mode / 5260 ~ 5320 MHz / Chain 0****CH Low**

Operating Frequency: 5260 MHz				
Environment Temperature (°C)	Voltage (V)	Measured Frequency (MHz)	Limit Range	Test Result
50	5	5260.012017	5250~5350	Pass
40	5	5259.978796	5250~5350	Pass
30	5	5259.988881	5250~5350	Pass
20	5	5260.016255	5250~5350	Pass
10	5	5259.988519	5250~5350	Pass
0	5	5260.006873	5250~5350	Pass
-10	5	5260.002160	5250~5350	Pass
-20	5	5260.010321	5250~5350	Pass

Operating Frequency: 5260 MHz				
Environment Temperature (°C)	Voltage (V)	Measured Frequency (MHz)	Limit Range	Test Result
20	4.5	5259.988816	5250~5350	Pass
	5	5260.020191	5250~5350	Pass
	5.5	5259.977597	5250~5350	Pass

**CH Mid**

Operating Frequency: 5280 MHz				
Environment Temperature (°C)	Voltage (V)	Measured Frequency (MHz)	Limit Range	Test Result
50	5	5279.972935	5250~5350	Pass
40	5	5279.971402	5250~5350	Pass
30	5	5280.006102	5250~5350	Pass
20	5	5279.982484	5250~5350	Pass
10	5	5279.984664	5250~5350	Pass
0	5	5280.018000	5250~5350	Pass
-10	5	5279.998408	5250~5350	Pass
-20	5	5279.994965	5250~5350	Pass

Operating Frequency: 5280 MHz				
Environment Temperature (°C)	Voltage (V)	Measured Frequency (MHz)	Limit Range	Test Result
20	4.5	5280.012116	5250~5350	Pass
	5	5279.977644	5250~5350	Pass
	5.5	5279.99931	5250~5350	Pass

**CH High**

Operating Frequency: 5320 MHz				
Environment Temperature (°C)	Voltage (V)	Measured Frequency (MHz)	Limit Range	Test Result
50	5	5319.997408	5250~5350	Pass
40	5	5320.020160	5250~5350	Pass
30	5	5319.971050	5250~5350	Pass
20	5	5319.981729	5250~5350	Pass
10	5	5320.015937	5250~5350	Pass
0	5	5319.986116	5250~5350	Pass
-10	5	5319.989819	5250~5350	Pass
-20	5	5320.002205	5250~5350	Pass

Operating Frequency: 5320 MHz				
Environment Temperature (°C)	Voltage (V)	Measured Frequency (MHz)	Limit Range	Test Result
20	4.5	5319.979637	5250~5350	Pass
	5	5319.997006	5250~5350	Pass
	5.5	5319.971659	5250~5350	Pass

**IEEE 802.11n HT 20 MHz Channel mode / 5260 ~ 5320 MHz / Chain 1****CH Low**

Operating Frequency: 5260 MHz				
Environment Temperature (°C)	Voltage (V)	Measured Frequency (MHz)	Limit Range	Test Result
50	5	5260.014088	5250~5350	Pass
40	5	5259.991820	5250~5350	Pass
30	5	5260.006930	5250~5350	Pass
20	5	5259.983994	5250~5350	Pass
10	5	5259.973170	5250~5350	Pass
0	5	5259.990323	5250~5350	Pass
-10	5	5260.016669	5250~5350	Pass
-20	5	5260.015324	5250~5350	Pass

Operating Frequency: 5260 MHz				
Environment Temperature (°C)	Voltage (V)	Measured Frequency (MHz)	Limit Range	Test Result
20	4.5	5260.000711	5250~5350	Pass
	5	5259.986572	5250~5350	Pass
	5.5	5260.019428	5250~5350	Pass

**CH Mid**

Operating Frequency: 5280 MHz				
Environment Temperature (°C)	Voltage (V)	Measured Frequency (MHz)	Limit Range	Test Result
50	5	5280.015428	5250~5350	Pass
40	5	5280.009929	5250~5350	Pass
30	5	5280.013924	5250~5350	Pass
20	5	5280.020303	5250~5350	Pass
10	5	5279.971073	5250~5350	Pass
0	5	5279.979509	5250~5350	Pass
-10	5	5279.973303	5250~5350	Pass
-20	5	5280.002382	5250~5350	Pass

Operating Frequency: 5280 MHz				
Environment Temperature (°C)	Voltage (V)	Measured Frequency (MHz)	Limit Range	Test Result
20	4.5	5279.975624	5250~5350	Pass
	5	5280.005569	5250~5350	Pass
	5.5	5279.993625	5250~5350	Pass

**CH High**

Operating Frequency: 5320 MHz				
Environment Temperature (°C)	Voltage (V)	Measured Frequency (MHz)	Limit Range	Test Result
50	5	5319.995145	5250~5350	Pass
40	5	5320.001357	5250~5350	Pass
30	5	5319.978539	5250~5350	Pass
20	5	5320.013763	5250~5350	Pass
10	5	5320.012716	5250~5350	Pass
0	5	5320.004643	5250~5350	Pass
-10	5	5320.009075	5250~5350	Pass
-20	5	5320.005137	5250~5350	Pass

Operating Frequency: 5320 MHz				
Environment Temperature (°C)	Voltage (V)	Measured Frequency (MHz)	Limit Range	Test Result
20	4.5	5320.003242	5250~5350	Pass
	5	5319.974267	5250~5350	Pass
	5.5	5319.99187	5250~5350	Pass

**IEEE 802.11n HT 40 MHz mode / 5270 ~ 5310 MHz / Chain 0****CH Low**

Operating Frequency: 5270 MHz				
Environment Temperature (°C)	Voltage (V)	Measured Frequency (MHz)	Limit Range	Test Result
50	5	5269.990077	5250~5350	Pass
40	5	5270.020461	5250~5350	Pass
30	5	5269.987786	5250~5350	Pass
20	5	5270.018152	5250~5350	Pass
10	5	5269.988179	5250~5350	Pass
0	5	5269.992502	5250~5350	Pass
-10	5	5269.998033	5250~5350	Pass
-20	5	5269.971509	5250~5350	Pass

Operating Frequency: 5270 MHz				
Environment Temperature (°C)	Voltage (V)	Measured Frequency (MHz)	Limit Range	Test Result
20	4.5	5270.01716	5250~5350	Pass
	5	5269.987403	5250~5350	Pass
	5.5	5269.99336	5250~5350	Pass

**CH High**

Operating Frequency: 5310 MHz				
Environment Temperature (°C)	Voltage (V)	Measured Frequency (MHz)	Limit Range	Test Result
50	5	5310.007848	5250~5350	Pass
40	5	5309.996155	5250~5350	Pass
30	5	5309.983108	5250~5350	Pass
20	5	5309.972814	5250~5350	Pass
10	5	5310.013688	5250~5350	Pass
0	5	5309.974498	5250~5350	Pass
-10	5	5310.019096	5250~5350	Pass
-20	5	5309.997862	5250~5350	Pass

Operating Frequency: 5310 MHz				
Environment Temperature (°C)	Voltage (V)	Measured Frequency (MHz)	Limit Range	Test Result
20	4.5	5310.020053	5250~5350	Pass
	5	5309.976868	5250~5350	Pass
	5.5	5309.981004	5250~5350	Pass

**IEEE 802.11n HT 40 MHz mode / 5270 ~ 5310 MHz / Chain 1****CH Low**

Operating Frequency: 5270 MHz				
Environment Temperature (°C)	Voltage (V)	Measured Frequency (MHz)	Limit Range	Test Result
50	5	5269.989624	5250~5350	Pass
40	5	5269.981485	5250~5350	Pass
30	5	5270.013124	5250~5350	Pass
20	5	5270.015979	5250~5350	Pass
10	5	5270.002858	5250~5350	Pass
0	5	5270.018174	5250~5350	Pass
-10	5	5270.019950	5250~5350	Pass
-20	5	5269.984533	5250~5350	Pass

Operating Frequency: 5270 MHz				
Environment Temperature (°C)	Voltage (V)	Measured Frequency (MHz)	Limit Range	Test Result
20	4.5	5270.015197	5250~5350	Pass
	5	5269.987114	5250~5350	Pass
	5.5	5270.004071	5250~5350	Pass

**CH High**

Operating Frequency: 5310 MHz				
Environment Temperature (°C)	Voltage (V)	Measured Frequency (MHz)	Limit Range	Test Result
50	5	5310.014101	5250~5350	Pass
40	5	5309.988983	5250~5350	Pass
30	5	5310.008357	5250~5350	Pass
20	5	5309.979926	5250~5350	Pass
10	5	5310.000750	5250~5350	Pass
0	5	5309.982629	5250~5350	Pass
-10	5	5310.003900	5250~5350	Pass
-20	5	5309.977770	5250~5350	Pass

Operating Frequency: 5310 MHz				
Environment Temperature (°C)	Voltage (V)	Measured Frequency (MHz)	Limit Range	Test Result
20	4.5	5309.976664	5250~5350	Pass
	5	5309.972037	5250~5350	Pass
	5.5	5309.99955	5250~5350	Pass

**IEEE 802.11n HT 80 MHz mode / 5290 MHz / Chain 0**

Operating Frequency: 5290 MHz				
Environment Temperature (°C)	Voltage (V)	Measured Frequency (MHz)	Limit Range	Test Result
50	5	5289.979139	5250~5350	Pass
40	5	5289.983718	5250~5350	Pass
30	5	5290.014678	5250~5350	Pass
20	5	5289.996669	5250~5350	Pass
10	5	5290.012251	5250~5350	Pass
0	5	5289.983000	5250~5350	Pass
-10	5	5290.009465	5250~5350	Pass
-20	5	5289.979081	5250~5350	Pass

Operating Frequency: 5290 MHz				
Environment Temperature (°C)	Voltage (V)	Measured Frequency (MHz)	Limit Range	Test Result
20	4.5	5289.995574	5250~5350	Pass
	5	5289.976976	5250~5350	Pass
	5.5	5290.008192	5250~5350	Pass

**IEEE 802.11n HT 80 MHz mode / 5290 MHz / Chain 1**

Operating Frequency: 5290 MHz				
Environment Temperature (°C)	Voltage (V)	Measured Frequency (MHz)	Limit Range	Test Result
50	5	5290.012135	5250~5350	Pass
40	5	5290.004875	5250~5350	Pass
30	5	5290.004231	5250~5350	Pass
20	5	5289.987337	5250~5350	Pass
10	5	5289.971944	5250~5350	Pass
0	5	5289.971783	5250~5350	Pass
-10	5	5290.017961	5250~5350	Pass
-20	5	5289.986352	5250~5350	Pass

Operating Frequency: 5290 MHz				
Environment Temperature (°C)	Voltage (V)	Measured Frequency (MHz)	Limit Range	Test Result
20	4.5	5290.004632	5250~5350	Pass
	5	5289.997979	5250~5350	Pass
	5.5	5289.983186	5250~5350	Pass

**IEEE 802.11a mode / 5500 ~ 5700 MHz:****CH Low**

Operating Frequency: 5500 MHz				
Environment Temperature (°C)	Voltage (V)	Measured Frequency (MHz)	Limit Range	Test Result
50	5	5500.012239	5470~5725	Pass
40	5	5499.992807	5470~5725	Pass
30	5	5500.008733	5470~5725	Pass
20	5	5500.019234	5470~5725	Pass
10	5	5500.014536	5470~5725	Pass
0	5	5500.000036	5470~5725	Pass
-10	5	5499.971288	5470~5725	Pass
-20	5	5500.019168	5470~5725	Pass

Operating Frequency: 5500 MHz				
Environment Temperature (°C)	Voltage (V)	Measured Frequency (MHz)	Limit Range	Test Result
20	4.5	5500.011095	5470~5725	Pass
	5	5499.975837	5470~5725	Pass
	5.5	5500.00758	5470~5725	Pass

**CH Mid**

Operating Frequency: 5580 MHz				
Environment Temperature (°C)	Voltage (V)	Measured Frequency (MHz)	Limit Range	Test Result
50	5	5580.004833	5470~5725	Pass
40	5	5580.005616	5470~5725	Pass
30	5	5580.020085	5470~5725	Pass
20	5	5580.015318	5470~5725	Pass
10	5	5579.991665	5470~5725	Pass
0	5	5580.006514	5470~5725	Pass
-10	5	5580.005423	5470~5725	Pass
-20	5	5580.007337	5470~5725	Pass

Operating Frequency: 5580 MHz				
Environment Temperature (°C)	Voltage (V)	Measured Frequency (MHz)	Limit Range	Test Result
20	4.5	5579.994271	5470~5725	Pass
	5	5579.976108	5470~5725	Pass
	5.5	5580.012497	5470~5725	Pass

**CH High**

Operating Frequency: 5700 MHz				
Environment Temperature (°C)	Voltage (V)	Measured Frequency (MHz)	Limit Range	Test Result
50	5	5699.983287	5470~5725	Pass
40	5	5699.976833	5470~5725	Pass
30	5	5700.019266	5470~5725	Pass
20	5	5699.981352	5470~5725	Pass
10	5	5699.988382	5470~5725	Pass
0	5	5699.980784	5470~5725	Pass
-10	5	5700.017071	5470~5725	Pass
-20	5	5699.987847	5470~5725	Pass

Operating Frequency: 5700 MHz				
Environment Temperature (°C)	Voltage (V)	Measured Frequency (MHz)	Limit Range	Test Result
20	4.5	5700.011257	5470~5725	Pass
	5	5700.008276	5470~5725	Pass
	5.5	5699.979358	5470~5725	Pass

**IEEE 802.11n HT 20 MHz Channel mode / 5500 ~ 5700 MHz / Chain 0****CH Low**

Operating Frequency: 5500 MHz				
Environment Temperature (°C)	Voltage (V)	Measured Frequency (MHz)	Limit Range	Test Result
50	5	5499.973375	5470~5725	Pass
40	5	5499.997596	5470~5725	Pass
30	5	5499.970664	5470~5725	Pass
20	5	5500.019542	5470~5725	Pass
10	5	5499.975333	5470~5725	Pass
0	5	5500.006313	5470~5725	Pass
-10	5	5499.974120	5470~5725	Pass
-20	5	5500.018190	5470~5725	Pass

Operating Frequency: 5500 MHz				
Environment Temperature (°C)	Voltage (V)	Measured Frequency (MHz)	Limit Range	Test Result
20	4.5	5499.993274	5470~5725	Pass
	5	5500.020307	5470~5725	Pass
	5.5	5499.991854	5470~5725	Pass

**CH Mid**

Operating Frequency: 5580 MHz				
Environment Temperature (°C)	Voltage (V)	Measured Frequency (MHz)	Limit Range	Test Result
50	5	5579.995665	5470~5725	Pass
40	5	5579.973471	5470~5725	Pass
30	5	5580.013120	5470~5725	Pass
20	5	5579.982610	5470~5725	Pass
10	5	5580.007744	5470~5725	Pass
0	5	5580.020963	5470~5725	Pass
-10	5	5580.015029	5470~5725	Pass
-20	5	5579.981925	5470~5725	Pass

Operating Frequency: 5580 MHz				
Environment Temperature (°C)	Voltage (V)	Measured Frequency (MHz)	Limit Range	Test Result
20	4.5	5580.002804	5470~5725	Pass
	5	5579.980407	5470~5725	Pass
	5.5	5580.000645	5470~5725	Pass

**CH High**

Operating Frequency: 5700 MHz				
Environment Temperature (°C)	Voltage (V)	Measured Frequency (MHz)	Limit Range	Test Result
50	5	5699.979469	5470~5725	Pass
40	5	5699.993819	5470~5725	Pass
30	5	5699.991902	5470~5725	Pass
20	5	5700.020210	5470~5725	Pass
10	5	5699.983012	5470~5725	Pass
0	5	5700.013535	5470~5725	Pass
-10	5	5700.017680	5470~5725	Pass
-20	5	5700.013052	5470~5725	Pass

Operating Frequency: 5700 MHz				
Environment Temperature (°C)	Voltage (V)	Measured Frequency (MHz)	Limit Range	Test Result
20	4.5	5700.003077	5470~5725	Pass
	5	5699.985001	5470~5725	Pass
	5.5	5699.988818	5470~5725	Pass

**IEEE 802.11n HT 20 MHz Channel mode / 5500 ~ 5700 MHz / Chain 1****CH Low**

Operating Frequency: 5500 MHz				
Environment Temperature (°C)	Voltage (V)	Measured Frequency (MHz)	Limit Range	Test Result
50	5	5499.978961	5470~5725	Pass
40	5	5500.013324	5470~5725	Pass
30	5	5499.981283	5470~5725	Pass
20	5	5499.983806	5470~5725	Pass
10	5	5500.018497	5470~5725	Pass
0	5	5500.016667	5470~5725	Pass
-10	5	5499.991468	5470~5725	Pass
-20	5	5499.995386	5470~5725	Pass

Operating Frequency: 5500 MHz				
Environment Temperature (°C)	Voltage (V)	Measured Frequency (MHz)	Limit Range	Test Result
20	4.5	5500.00157	5470~5725	Pass
	5	5499.983486	5470~5725	Pass
	5.5	5499.989777	5470~5725	Pass

**CH Mid**

Operating Frequency: 5580 MHz				
Environment Temperature (°C)	Voltage (V)	Measured Frequency (MHz)	Limit Range	Test Result
50	5	5579.991566	5470~5725	Pass
40	5	5580.014367	5470~5725	Pass
30	5	5580.006041	5470~5725	Pass
20	5	5580.020217	5470~5725	Pass
10	5	5579.971897	5470~5725	Pass
0	5	5579.978571	5470~5725	Pass
-10	5	5579.979237	5470~5725	Pass
-20	5	5580.018024	5470~5725	Pass

Operating Frequency: 5580 MHz				
Environment Temperature (°C)	Voltage (V)	Measured Frequency (MHz)	Limit Range	Test Result
20	4.5	5580.013604	5470~5725	Pass
	5	5579.993662	5470~5725	Pass
	5.5	5580.01083	5470~5725	Pass

**CH High**

Operating Frequency: 5700 MHz				
Environment Temperature (°C)	Voltage (V)	Measured Frequency (MHz)	Limit Range	Test Result
50	5	5700.013002	5470~5725	Pass
40	5	5699.989844	5470~5725	Pass
30	5	5700.001466	5470~5725	Pass
20	5	5699.981010	5470~5725	Pass
10	5	5699.995519	5470~5725	Pass
0	5	5699.970856	5470~5725	Pass
-10	5	5699.971154	5470~5725	Pass
-20	5	5699.989922	5470~5725	Pass

Operating Frequency: 5700 MHz				
Environment Temperature (°C)	Voltage (V)	Measured Frequency (MHz)	Limit Range	Test Result
20	4.5	5700.014408	5470~5725	Pass
	5	5700.013489	5470~5725	Pass
	5.5	5700.012502	5470~5725	Pass

**IEEE 802.11n HT 40 MHz mode / 5510 ~ 5670 MHz / Chain 0****CH Low**

Operating Frequency: 5510 MHz				
Environment Temperature (°C)	Voltage (V)	Measured Frequency (MHz)	Limit Range	Test Result
50	5	5509.973389	5470~5725	Pass
40	5	5509.978927	5470~5725	Pass
30	5	5510.010808	5470~5725	Pass
20	5	5510.010269	5470~5725	Pass
10	5	5510.003614	5470~5725	Pass
0	5	5510.017459	5470~5725	Pass
-10	5	5509.991674	5470~5725	Pass
-20	5	5509.989255	5470~5725	Pass

Operating Frequency: 5510 MHz				
Environment Temperature (°C)	Voltage (V)	Measured Frequency (MHz)	Limit Range	Test Result
20	4.5	5509.993215	5470~5725	Pass
	5	5510.020018	5470~5725	Pass
	5.5	5509.996836	5470~5725	Pass

**CH Mid**

Operating Frequency: 5550 MHz				
Environment Temperature (°C)	Voltage (V)	Measured Frequency (MHz)	Limit Range	Test Result
50	5	5549.980091	5470~5725	Pass
40	5	5550.018849	5470~5725	Pass
30	5	5549.974484	5470~5725	Pass
20	5	5549.978119	5470~5725	Pass
10	5	5550.018835	5470~5725	Pass
0	5	5549.985476	5470~5725	Pass
-10	5	5549.993660	5470~5725	Pass
-20	5	5550.019906	5470~5725	Pass

Operating Frequency: 5550 MHz				
Environment Temperature (°C)	Voltage (V)	Measured Frequency (MHz)	Limit Range	Test Result
20	4.5	5549.998988	5470~5725	Pass
	5	5550.010317	5470~5725	Pass
	5.5	5549.983567	5470~5725	Pass

**CH High**

Operating Frequency: 5670 MHz				
Environment Temperature (°C)	Voltage (V)	Measured Frequency (MHz)	Limit Range	Test Result
50	5	5670.010742	5470~5725	Pass
40	5	5670.006533	5470~5725	Pass
30	5	5670.000473	5470~5725	Pass
20	5	5670.001245	5470~5725	Pass
10	5	5669.991489	5470~5725	Pass
0	5	5669.983066	5470~5725	Pass
-10	5	5670.012818	5470~5725	Pass
-20	5	5669.974967	5470~5725	Pass

Operating Frequency: 5670 MHz				
Environment Temperature (°C)	Voltage (V)	Measured Frequency (MHz)	Limit Range	Test Result
20	4.5	5669.991571	5470~5725	Pass
	5	5669.9786	5470~5725	Pass
	5.5	5669.982091	5470~5725	Pass

**IEEE 802.11n HT 40 MHz mode / 5510 ~ 5670 MHz / Chain 1****CH Low**

Operating Frequency: 5510 MHz				
Environment Temperature (°C)	Voltage (V)	Measured Frequency (MHz)	Limit Range	Test Result
50	5	5510.003044	5470~5725	Pass
40	5	5509.973098	5470~5725	Pass
30	5	5510.015551	5470~5725	Pass
20	5	5510.000913	5470~5725	Pass
10	5	5509.974670	5470~5725	Pass
0	5	5509.999173	5470~5725	Pass
-10	5	5510.016162	5470~5725	Pass
-20	5	5510.015125	5470~5725	Pass

Operating Frequency: 5510 MHz				
Environment Temperature (°C)	Voltage (V)	Measured Frequency (MHz)	Limit Range	Test Result
20	4.5	5509.976187	5470~5725	Pass
	5	5510.016266	5470~5725	Pass
	5.5	5509.976544	5470~5725	Pass

**CH Mid**

Operating Frequency: 5550 MHz				
Environment Temperature (°C)	Voltage (V)	Measured Frequency (MHz)	Limit Range	Test Result
50	5	5549.996584	5470~5725	Pass
40	5	5549.977649	5470~5725	Pass
30	5	5550.012362	5470~5725	Pass
20	5	5550.000315	5470~5725	Pass
10	5	5549.981953	5470~5725	Pass
0	5	5549.990202	5470~5725	Pass
-10	5	5549.996390	5470~5725	Pass
-20	5	5549.973921	5470~5725	Pass

Operating Frequency: 5550 MHz				
Environment Temperature (°C)	Voltage (V)	Measured Frequency (MHz)	Limit Range	Test Result
20	4.5	5550.00178	5470~5725	Pass
	5	5549.98326	5470~5725	Pass
	5.5	5550.018322	5470~5725	Pass

**CH High**

Operating Frequency: 5670 MHz				
Environment Temperature (°C)	Voltage (V)	Measured Frequency (MHz)	Limit Range	Test Result
50	5	5670.012330	5470~5725	Pass
40	5	5669.986193	5470~5725	Pass
30	5	5669.989626	5470~5725	Pass
20	5	5670.005537	5470~5725	Pass
10	5	5669.989296	5470~5725	Pass
0	5	5669.977249	5470~5725	Pass
-10	5	5669.973609	5470~5725	Pass
-20	5	5669.987641	5470~5725	Pass

Operating Frequency: 5670 MHz				
Environment Temperature (°C)	Voltage (V)	Measured Frequency (MHz)	Limit Range	Test Result
20	4.5	5670.000129	5470~5725	Pass
	5	5670.006994	5470~5725	Pass
	5.5	5669.989175	5470~5725	Pass

**IEEE 802.11n HT 80 MHz mode / 5530 ~ 5690 MHz / Chain 0****CH Low**

Operating Frequency: 5530 MHz				
Environment Temperature (°C)	Voltage (V)	Measured Frequency (MHz)	Limit Range	Test Result
50	5	5509.983120	5470~5725	Pass
40	5	5510.014823	5470~5725	Pass
30	5	5509.977967	5470~5725	Pass
20	5	5510.010255	5470~5725	Pass
10	5	5510.020924	5470~5725	Pass
0	5	5510.018083	5470~5725	Pass
-10	5	5509.981465	5470~5725	Pass
-20	5	5509.997952	5470~5725	Pass

Operating Frequency: 5530 MHz				
Environment Temperature (°C)	Voltage (V)	Measured Frequency (MHz)	Limit Range	Test Result
20	4.5	5509.991742	5470~5725	Pass
	5	5509.995899	5470~5725	Pass
	5.5	5510.020527	5470~5725	Pass

**CH High**

Operating Frequency: 5690 MHz				
Environment Temperature (°C)	Voltage (V)	Measured Frequency (MHz)	Limit Range	Test Result
50	5	5689.973995	5470~5725	Pass
40	5	5689.994218	5470~5725	Pass
30	5	5690.010009	5470~5725	Pass
20	5	5690.002545	5470~5725	Pass
10	5	5689.976316	5470~5725	Pass
0	5	5689.993991	5470~5725	Pass
-10	5	5689.984162	5470~5725	Pass
-20	5	5690.003579	5470~5725	Pass

Operating Frequency: 5690 MHz				
Environment Temperature (°C)	Voltage (V)	Measured Frequency (MHz)	Limit Range	Test Result
20	4.5	5689.998343	5470~5725	Pass
	5	5689.985387	5470~5725	Pass
	5.5	5690.009665	5470~5725	Pass

**IEEE 802.11n HT 80 MHz mode / 5530 ~ 5690 MHz / Chain 1****CH Low**

Operating Frequency: 5530 MHz				
Environment Temperature (°C)	Voltage (V)	Measured Frequency (MHz)	Limit Range	Test Result
50	5	5530.014735	5470~5725	Pass
40	5	5529.997081	5470~5725	Pass
30	5	5529.994968	5470~5725	Pass
20	5	5530.015823	5470~5725	Pass
10	5	5529.970451	5470~5725	Pass
0	5	5530.017713	5470~5725	Pass
-10	5	5529.977606	5470~5725	Pass
-20	5	5530.007300	5470~5725	Pass

Operating Frequency: 5530 MHz				
Environment Temperature (°C)	Voltage (V)	Measured Frequency (MHz)	Limit Range	Test Result
20	4.5	5529.976252	5470~5725	Pass
	5	5529.972615	5470~5725	Pass
	5.5	5529.976862	5470~5725	Pass

**CH High**

Operating Frequency: 5690 MHz				
Environment Temperature (°C)	Voltage (V)	Measured Frequency (MHz)	Limit Range	Test Result
50	5	5690.008847	5470~5725	Pass
40	5	5689.973095	5470~5725	Pass
30	5	5690.005540	5470~5725	Pass
20	5	5690.003147	5470~5725	Pass
10	5	5689.995852	5470~5725	Pass
0	5	5690.018924	5470~5725	Pass
-10	5	5689.970779	5470~5725	Pass
-20	5	5689.970612	5470~5725	Pass

Operating Frequency: 5690 MHz				
Environment Temperature (°C)	Voltage (V)	Measured Frequency (MHz)	Limit Range	Test Result
20	4.5	5689.987866	5470~5725	Pass
	5	5690.009008	5470~5725	Pass
	5.5	5690.006175	5470~5725	Pass